

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

OCTOBER 5 1957

Haliborange TABLETS

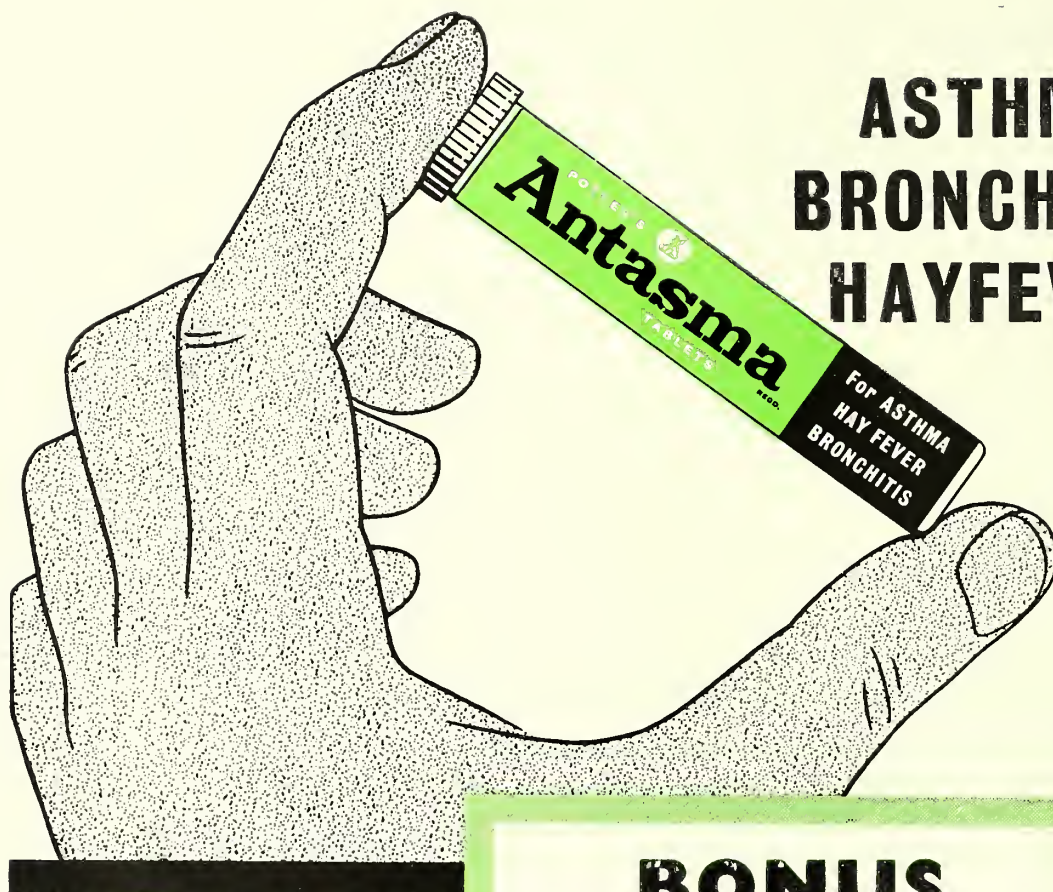
only six more days remain

for you to take advantage of these exceptional **DISPLAY BONUS TERMS**

DISPLAY PARCEL	12 doz. bottles of 25 BONUS 24 bottles of 25 (i.e. 2 free bottles in each dozen)
	OUTLAY £15.0.0 PROFIT £12.0.0
DISPLAY PARCEL	8 doz. bottles of 25, 1 doz. bottles of 100 BONUS 16 bottles of 25, 2 bottles of 100 (i.e. 2 free bottles in each dozen)
	OUTLAY £13.16.8 PROFIT £11.1.4
DISPLAY PARCEL	4 doz. bottles of 25, 2 doz. bottles of 100 BONUS 8 bottles of 25, 4 bottles of 100 (i.e. 2 free bottles in each dozen)
	OUTLAY £12.13.4 PROFIT £10.2.8
DISPLAY PARCEL	3 doz bottles of 100 BONUS 6 bottles of 100 (i.e. 2 free bottles in each dozen)
	OUTLAY £11.10.0 PROFIT £9.4.0

IMPORTANT

NOTE — Any number of Bonus parcels can be ordered — each will contain supplies of show material and consumer samples.



ASTHMA BRONCHITIS HAYFEVER

Potter's

introduce a **NEW** asthma preparation in tablet form.

Asthma sufferers today expect a form of relief that is immediate. Something that can be taken any time, anywhere. Potter & Clarke Ltd., whose name has so long been associated with asthma remedies, now introduce Potter's ANTASMA, a tablet preparation. This form of ON-THE-SPOT TREATMENT is the outcome of intense research and tests have shown it to be unusually quick and effective in its results. A sure seller, Potter's ANTASMA is sold in single phials or in a large economy carton holding three.

Trade enquiries for the Republic of Ireland should be addressed to:—
Lilmar Pharmaceutical Ltd., Santry, Dublin.

Sole Proprietors and Manufacturers:

POTTER & CLARKE LIMITED · RIVER ROAD · BARKING · ESSEX · RIPLEYWAY 3041

BONUS OFFER

Introductory **BONUS TERMS** through **WHOLESALE** **SALERS ONLY** are available for an indefinite period. The bonus is based on **MINIMUM QUANTITIES** of 2 dozen cartons of the small size together with one dozen of the large size, packed in an attractive display outer.

ONE CARTON IN EVERY DOZEN FREE

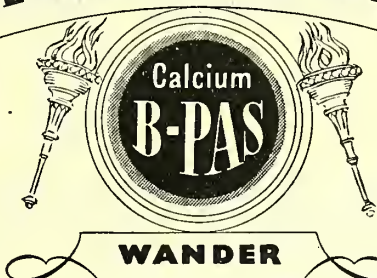
PRICES	WHOLESALE	RETAIL
SMALL SIZE (1 phial—12 tablets) plus P. Tax = 18/6	14/3 per dozen	2/-
LARGE SIZE (3 phials—36 tablets) plus P. Tax = 46/9	36/- per dozen	5/-

**THROUGH WHOLESALE
ONLY PLEASE**



FORMULA: Each tablet contains:
EPHED. HYDROCHLOR. B.P. 5.46% w/w.
CAFFEIN. 10.92% POT. IOD. 12.28%
THEOPHYLL. c. AETHYLENEDIAM. 21.84%
PHENACET. 21.84%
CALC. GLUCON. 21.84%.

CHEMOTHERAPY OF TUBERCULOSIS



the newest proven modification of PAS for safe, acceptable, convenient and therapeutically reliable performance in combined regimens with Isoniazid.

B-PAS (Wander), 4-benzoylamino-2-hydroxybenzoate, first introduced by our Research Laboratories in 1948, is an acknowledged contribution to tuberculo-therapy.

ADVANTAGES

CALCIUM B-PAS (Wander) is virtually insoluble.
It provides high blood levels of extended duration.
It is practically tasteless.
It is well tolerated and best suited for domiciliary use.

MULTIPLE PRESENTATION FOR COMBINED REGIMENS

CALCIUM B-PAS (Wander) is available as such in two convenient forms: Powder and Cachets. Content in each form is ranged so that the daily regimen is simplified. The 3.5 g. Powders taken with a draught of water or milk are especially acceptable. For combined regimens of B-PAS and INAH, 'B-PASINAH' Powders and Cachets according to preference supply the advantage of concurrent therapy in readily acceptable form which practically ensures the patient's co-operation in carrying out instructions.

PACKINGS

CALCIUM B-PAS **WANDER**

Powders: Tins of 150 and 400 x 3.5 g. envelopes
Cachets: " " 80 and 400 x 1.0 g.
Sodium B-PAS (Wander) also available in 1.5 g. Cachets

'B-PASINAH' (B-PAS plus Isoniazid)

Powders: Calcium B-PAS (Wander) 3.5 g.
Isoniazid 87.5 mg.
Tins of 150 and 400

Cachets: Calcium B-PAS (Wander) 1 g.
Isoniazid 25 mg.
Tins of 100 and 500

Price details of all forms of PAS from the Medical Dept.

'PASINAH' Cachets of 1.5 g. Sodium PAS and 17, 25, 33 or 50 mg. Isoniazid also available.
Tins of 100 and 500.

All Wander tuberculostatic products are available from usual wholesalers or direct from

A. WANDER LIMITED

42 Upper Grosvenor Street, Grosvenor Square, London W.1

CANADA: A. Wander Ltd., Peterborough, Ontario. AUSTRALIA: A. Wander Ltd., Devonport, Tasmania. NEW ZEALAND: A. Wander Ltd., Christchurch. INDIA: Khatau Valabhidas & Co., Indian Globe Chambers, Fort Street, Fort, Bombay, I. PAKISTAN: Grahams Trading Co. (Pakistan) Ltd., P.O. Box. 30, Karachi. CEYLON: A Baur & Co. Ltd., Colombo.



T 49

Quinine
Quinidine
Cinchonine
Cinchonidine
Totaquina

and all other Alkaloids of
Cinchona and their salts

Quinine
the natural antimalarial

N.V. AMSTERDAMSCH E CHININEFABRIEK
AMSTERDAM

N.V. NEDERLANDSCHE KININEFABRIEK
MAARSSEN

DISTRIBUTORS:

R. W. GREEFF & CO., LTD.

HEAD OFFICE

GARRARD HOUSE - 31/45, GRESHAM STREET, LONDON, E.C.2
MONarch 1066 (12 Lines)

Wires: Greeff, Cent. London

Telex 2-2590

and at

THE ROYAL EXCHANGE, MANCHESTER
Blackfriars 9407-8 Wires: Greeff, Manchester



SLIM SILHOUETTES

MAKE

CARRUGAN

A BEST SELLER

CARRUGAN, THE ORIGINAL SWEDISH MILK SLIMMING DIET, is being regularly advertised in the press and demonstrated in major provincial centres. CARRUGAN means safe, natural slimming—without drugs, without loss of energy. Your customers want CARRUGAN's round green tin and the CARRUGAN slim silhouette. This means sales!

CARRUGAN will give you rapid turnover and quick profits.

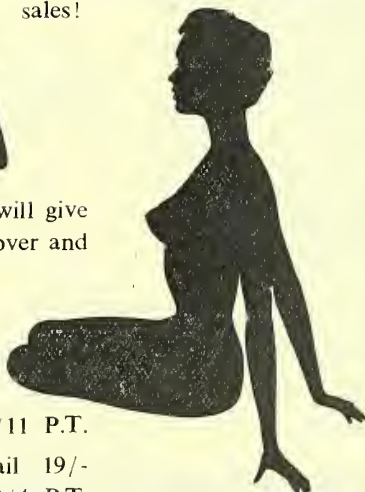
PRICES:

2 oz. size retail 10/11

Cost 6/2 + 1/11 P.T.

4 oz. size retail 19/-

Cost 11/- + 3/4 P.T.



ORDER and
SELL

CARRUGAN
THE ORIGINAL SWEDISH MILK SLIMMING DIET

From your usual wholesalers.

MILLER OF GOLDEN SQUARE LTD.

13 Golden Square, London, W.1. Tel: GERrard 6533



Show 'Elasto' — It Sells on Sight

Elasto
THE BIOCHEMIC TABLET

Your profit — 33 $\frac{1}{3}$ % on each sale!

TRADE 'VERLOG' MARK

SURGICAL ELASTIC HOSIERY

Belts, Trusses, Suspensory Bandages, etc.

ATHLETIC SUPPORTS

Knee Caps, Anklets, Jockstraps

THOS. GLOVER & SON, LTD., CARLTON, NOTTINGHAM

Tel.: 58227 (2 lines).

'Grams: Verlog, Nottingham

LABORATORY NATIVELLE LTD, presents:

NATISEDINE

A new GENERAL SEDATIVE with
elective cardiac action

Each tablet contains:

Phenylethylbarbiturate of Quinidine: 0.10 gm.

A new, crystalline salt of high purity, stable
and with definite physical characteristics.

Tube of 20 Retail price 10/2 $\frac{1}{2}$
Bottles of 100 (Dispensing Packs)

LABORATORY NATIVELLE LTD

74 White Lion Street, London, N.1

Other lines: NATIVELLE'S DIGITALINE—OUABAIN ARNAUD
IODHEMA—NATIROSE

BURROUGH'S

**S.V.R. DOUBLY
RECTIFIED**

JAMES BURROUGH LTD.,
1 CALE DISTILLERY LONDON S.E.11

Dispensing

CORKS?

Immediate delivery from
RANKIN BROTHERS & SONS
(RANKIN PARTNERS, LTD.)

OWNERS OF THE FINEST
CORK FORESTS IN PORTUGAL

139 Bermondsey St., London, S.E.1

Telephone: HOP 0074

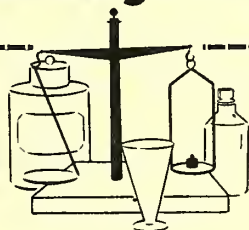


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A message to modern managements



THE "DUCHESS" (illustrated)

Made in superior quality Poplin or Rayon, this elegant style is pleated back and front and has 2 side pockets, all-round belt to button and button cuffs. Sizes: SW, W, WX, OS and XOS. In wide range of colours. Price 31/6.

THE "PROFESSIONAL" (for men)

This Long Coat has a stitched down half-belt back and is made in a special satin drill. Features: detachable buttons, 2 side and 1 breast pocket with division. 2 side vents to trousers. Vent cuffs. Seam back. Centre vent. Price 32/9.

★ Send today for a free copy of *Gardiner's Overall Catalogue* illustrating more than 30 styles.

Make sure your staff always looks smart and efficient in well-tailored overalls from Gardiner's. For protection, for good looks, you can't beat these elegantly-cut and finished garments. They're so hygienic—so crisp and clean. Wash them time and time again—they still look as good as new. Gardiner's overalls are made in a wide range of styles and materials, including drill, rayon and nylon.

GARDINER'S

GARDINER & CO (The Scotch House) Ltd

1, 3 & 5 Commercial Road, London, E.1

(Opp. Aldgate East Tube Station)

Telephone: BISHopsgate 6751/3

Open all day Saturday — closed 1 o'clock Thursday

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PRIORY LABORATORIES LIMITED
PYRAMID WORKS, WEST DRAYTON, MIDDX.

be ready for

Chilblains

with this popular and profitable line

Containing Histamine and Acetylcholine in a special vanishing cream base, Akrotherm is the outstandingly convenient, modern treatment for restoring the blood circulation and relieving chilblains.

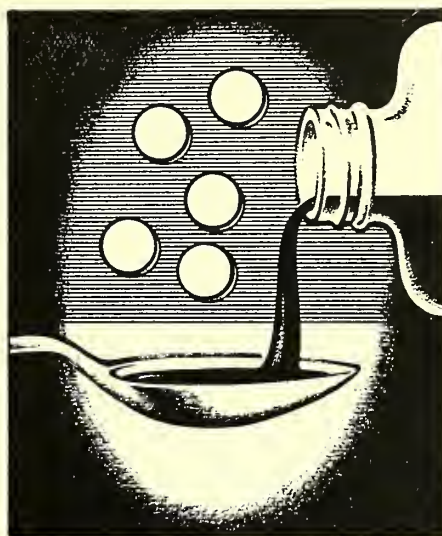
New High Profit **62½%** on cost

including a bonus of one per dozen with all orders
An attractive NEW display outer will help sales

Akrotherm CREAM

Packings: 22 gramme tube 3/- inc. P. Tax
250 gramme jar 9/- tax free

*New
Buffered
Theophylline
for the
Prophylaxis
and
Treatment of
Asthma*



'ENGLATE' combines theophylline sodium with glycine, which acts as a powerful buffer against gastric hydrochloric acid—and so enables the full bronchodilatory value of theophylline to be orally employed in adequate doses to prevent attacks of bronchial asthma—without causing nausea or vomiting.

Because of its exceptional tolerance and low toxicity, 'ENGLATE' syrup is specially recommended for children up to 12 years in preference to tablets.

ENGLATE

REGD. TRADE MARK

Brand of theophylline sodium glycinate

TABLETS OR SYRUP

A NICHOLAS



PRODUCT

A. & G. NICHOLAS LTD.

ETHICAL PHARMACEUTICALS,
SLOUGH, ENGLAND



The Cox organisation has extensive facilities for the development, production and packaging of pharmaceuticals to private formulae.

For excellence of manufacture and the personal services available it is probably unsurpassed anywhere in the world.

ARTHUR H. COX & CO. LTD.
BRIGHTON · ENGLAND

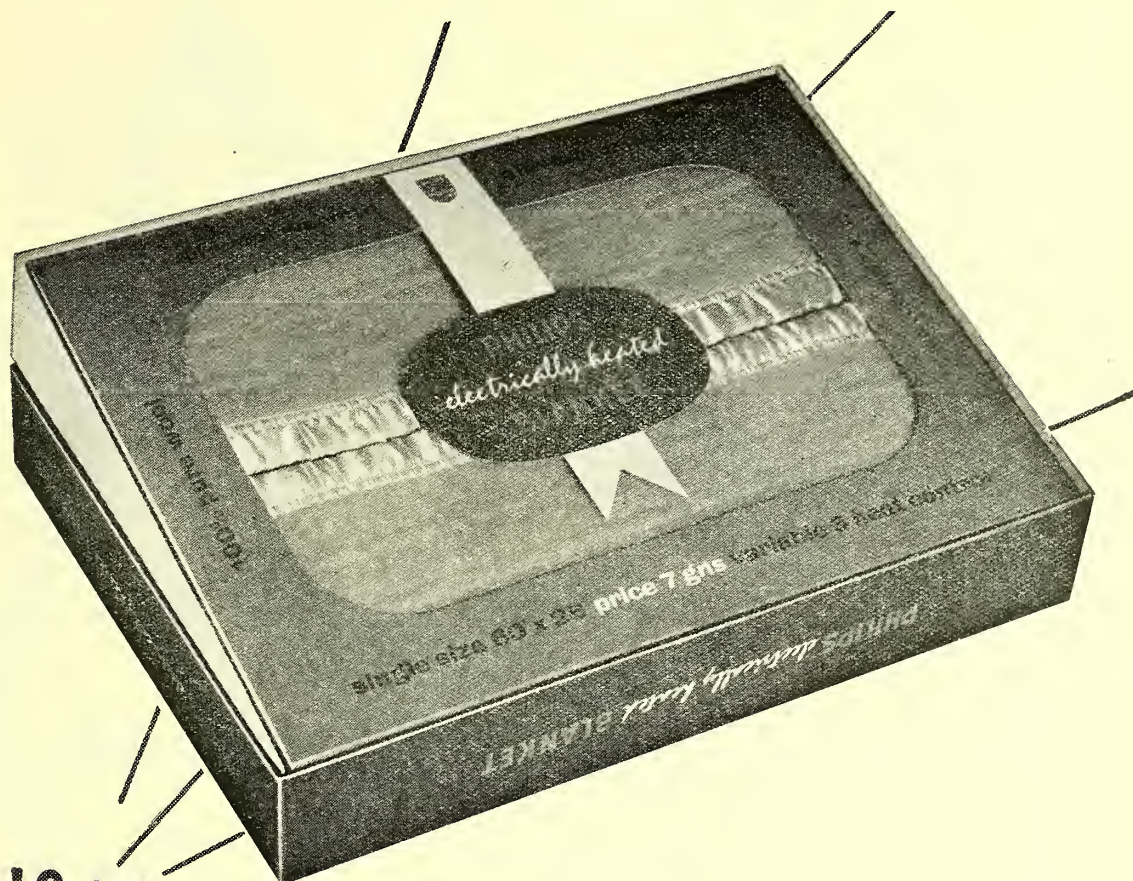
THE FOREMOST TABLET HOUSE

COURT ORDER

COTY (ENGLAND) LIMITED wish to announce that, on September 24th, 1957, they applied to the High Court for an injunction, and Mr. Justice Paull made an order against HENRY TETLOW COMPANY LIMITED (the manufacturers of Swandown Lipsticks) and F. W. WOOLWORTH & COMPANY LIMITED to restrain them from infringing Coty's Trade Mark "ALIVE" registered in respect of lipsticks and also to restrain them from selling lipsticks under the designation "24" in any way likely to lead to the belief that such lipsticks are Coty's "24" lipsticks or to cause confusion or deception therewith. Messrs. Tetlow and

Woolworth gave an undertaking in the terms asked for. Messrs. Woolworth further undertook to withdraw the lipsticks complained of from the market within 24 hours.

Subsequently, Messrs. Coty received notice of sales by other retailers and would have taken proceedings had those retailers not given instructions for the goods in question to be taken off sale forthwith.



Popular new TV star!

This is the star to hitch your sales to—the new Philips Electrically Heated Blanket. For this is the blanket with *all* the advantages: 100% pure wool, 3-heat temperature control, beautiful finish, ample size, exceptional safety and the reliability always associated with Philips.

What's more, the eye-catching pack has been specially designed for immediate store display. At 7 gns. (including P.T.) for the single size and 11 gns. (including P.T.) for the double, the new Philips Electrically Heated Blanket is already in big demand. Make sure you stock and display it too—it's a sure seller!

Nation-wide TV Campaign

It has been proved that demonstrating this type of product is the best way of selling it—so that's just what we're doing. On all Commercial TV networks—London, the Midlands, the North and Scotland—Philips Electrically Heated Blanket is playing a star part this Autumn. The result? Sales and plenty of them! Be sure to get your share.

PHILIPS

electrically heated

BLANKETS

All-wool warmth • All-wool safety



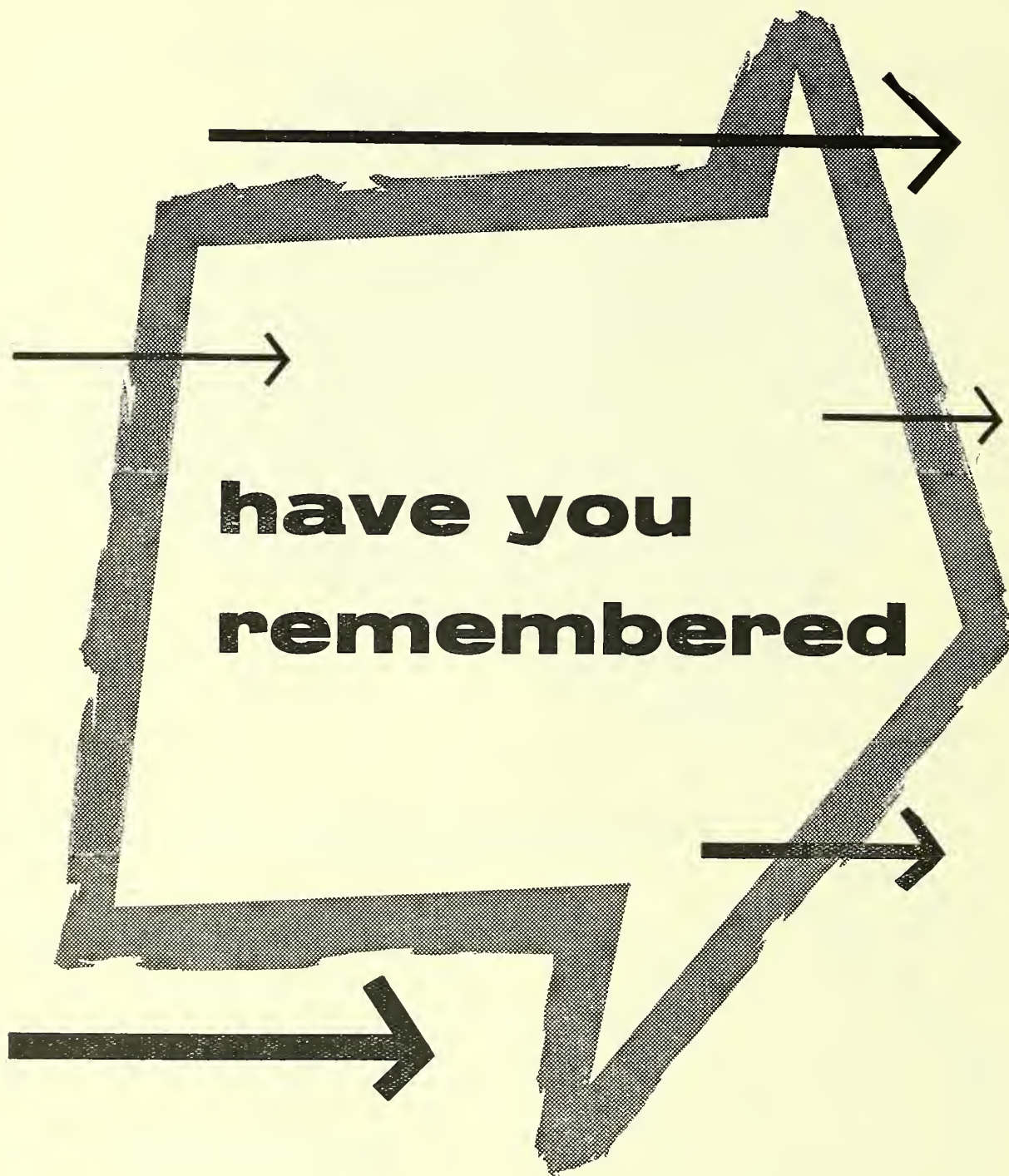
B.S.2612 Lic. No. 2659.
These Blankets conform to
all the requirements of the
British Standards Institution.



PHILIPS ELECTRICAL LTD.

Century House · Shaftesbury Avenue · London · WC2

(FL 786B)



Do not forget to take advantage of our BONUS OFFER while there is still time. Remember that you can get TWO FREE TUBES of Finalgon and TWO FREE PACKS of Dulcolax in every dozen ordered.

We are offering the same bonus with Dulcolax as with Finalgon... TWO FREE PACKS IN EVERY DOZEN. Order your stocks now while there is still time to take advantage of this outstanding BONUS OFFER.

DULCOLAX is a contact laxative which restores the sluggish bowel to normal action quickly, smoothly and easily. DULCOLAX is not absorbed and has no harmful effects. It can be given freely even to sick patients and to children. DULCOLAX is already well known and the demand will increase.



Dulcolax * SMOOTH ACTING LAXATIVE

4,4'-diacetoxy - diphenyl - Pyridyl-2-methane

this BONUS OFFER

FINALGON ointment is a unique rubefacient which is highly effective in the relief of muscular pain, rheumatism, lumbago, fibrositis, sciatica, arthritis and simple muscular strain. The ointment is packed in tubes and the attractive outer contains a patent applicator specially designed to allow Finalgon to be applied effectively. Be prepared for the increased demand for Finalgon and take advantage of our BONUS OFFER.

IN EVERY DOZEN TUBES OF FINALGON ORDERED YOU WILL GET TWO FREE TUBES. EACH DOZEN WILL ONLY BE CHARGED AS TEN. TAKE ADVANTAGE OF THIS OPPORTUNITY . . . NOW.



FINALGON * OINTMENT

Nonylic acid vanillylamide with the beta butoxyethyl ester of Nicotinic acid.



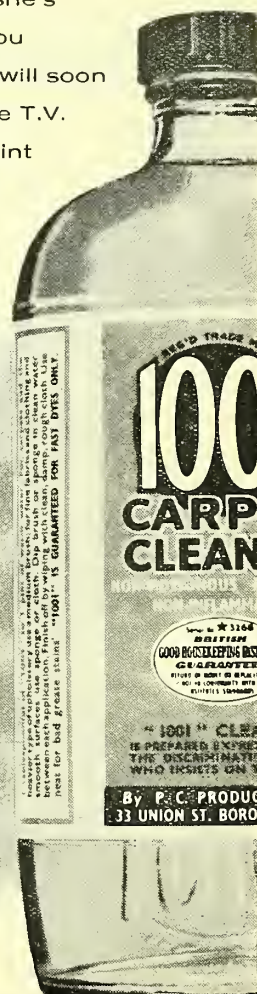
Manufactured and distributed in the U.K. by Pfizer Ltd., Folkestone, Kent, for
C. H. Boehringer Sohn, Ingelheim am Rhein
 Registered Proprietors of the Trade Mark. *Regd. Trade Mark.



All that glitters

is not gold ... it's the eager look in your customer's eye as she asks for 1001—the family's favourite all-round cleaner she's just seen in action on T.V. Are you prepared for the big demands that will soon be created by this mighty, nation-wide T.V. campaign? Can you afford to disappoint your customers? Order now to avoid delay and disappointment.

1001 CLEANER



P.C. PRODUCTS LTD., 33 UNION STREET, LONDON S.E.1.



This is **THE PACK** for
YOUR dispensary

SPECIAL PARCEL

12 BOXES OF SUPPOSITORIES SENT

POST FREE!

to your address and charged through YOUR USUAL WHOLESALER

E.G. 6 Boxes of Suppos. Bism. Subgall. 6 Boxes of Suppos. Bism. Subgall. Co.

Manufactured and Packed in the Laboratories of:

RICHARD DANIEL & SON LTD.

MANSFIELD ROAD, DERBY, Tel. 40671 (8 lines) and at GROSVENOR STREET, ASHTON-U-LYNE, Tel. 2816 (3 lines)

Hats off to Mr. Smith . . .

Mr. Smith does two things. He serves today's customers, and he plans tomorrow's. He makes today's purchase serve as tomorrow's reminder. The great thing in Mr. Smith's view is that Mr. Smith and his pharmacy should be known. And the amount he devotes to this purpose is, well, two or three pounds a year.

"A publicity campaign to make Mr. Smith a household name in his district at a cost of a few pounds?" you say incredulously. Certainly. He uses thousands of Certor Dispensing Cartons a year. And on each one goes his name. He uses thousands of Certor Counter Satchels a year. The same again.

NOW FOR THE COST

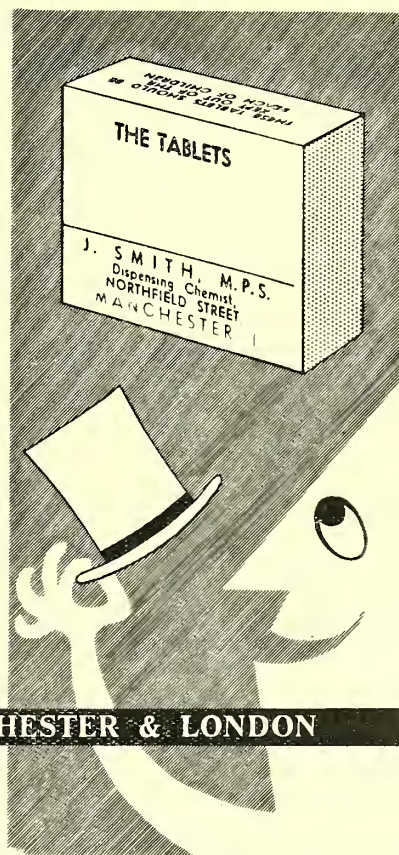
Say Mr. Smith orders 5,000 cartons. The extra cost of own-name printing is 3/- per 1,000. Say he orders 5,000 Certor Counter Satchels. Own-name printing costs 3/6 per 1,000. He builds up prestige all the time, yet hardly knows he is paying for it. You can do it, too.

**Samples of cartons and satchels on request.*



MACDONALD & SON LTD. of MANCHESTER & LONDON

Portland Mill, Ashton-under-Lyne, Lancs. Tel.: Ashton 4422 (10 lines).
25 Holywell Row, London, E.C.2. Tel.: Bishopsgate 4809 (2 lines).





Never before

A CAMPAIGN FOR BABY FOOD LIKE THIS!

YOU MUST HAVE heard the news by now: Glaxo are selling baby food the way baby foods have never been sold before! Take a good look at the half-page advertisement in the picture—it will reach 12,287,000 via the Daily Express on October 10th. Glaxo's new campaign for Ostermilk and Farex is in full swing now—and it will continue right up till the middle of 1959. No baby talk in *these* advertisements! Glaxo are telling mothers what they want to know: why they can, and should, trust their children to Glaxo care. Glaxo are stressing the extensive scientific experience that lies behind Ostermilk and Farex . . . talking

the way no other maker of baby food has talked or *can* talk—ever.

The advertisement pictured is the third in a series telling the Glaxo story in the Daily Express, Daily Mirror, Woman, Woman's Own and many other big circulation publications. The advertisements have been placed so as to reach almost every mother in the country.

Profit from the confidence created by this original and persuasive advertising. Check your stocks of Glaxo's Ostermilk and Farex now. Make sure you've enough to keep all your customers' custom.

your baby

your baby

your baby

YOU. A face you know by heart... a body utterly dependent on your care. Nothing has ever been so much a part of you. When you buy your child's first milk food, and your child's first solid food, you want to be sure that no finer product... exists in any shop, anywhere. That certainly you get with Glaxo milk—first milk food of millions... and with Borden's first follow-on food of millions. Why? Because both products are made by Glaxo Laboratories. Glaxo, you see, knows a child the way a doctor does. Glaxo makes so many products your doctor knows, uses and trusts.

Much of Britain's cottons is made by Glaxo

[illegible]

his is the scientific experience relied upon by doctors and nurses, by chemists and clinical microbiologists all over the world. This is the specialized knowledge which goes into the making of every Glaxo product. This is the trust you share when you trust your baby to Borden's Sterilized Milk and Fanny's.

Into OSTERMILK and FAREX
goes all the experience of GLAXO LABORATORIES

Ostermilk and Farex are registered trade marks.

**over 12 million
readers of the**

DAILY EXPRESS

will see

each advertisement

only one week left . . .

persomnia

trade mark

display bonus offer

(closes Oct. 15th)



plus... full-scale national press

tie up your counter display now

67% profit

on cost excl P.T.

bonus orders supplied direct and invoiced
through your usual wholesaler if indicated



CLINICAL PRODUCTS LTD • RICHMOND • SURREY



persomnia special display bonus parcels

parcel 'a' (minimum)

1 doz. 2/9 persomnia	19. 2
½ doz. 5/6 persomnia	19. 2
	<u>£1. 18. 4</u>
special bonus discount 10%	3. 10
	<u>£1. 14. 6</u>
purchase tax	11. 6
	£2. 6. 0

parcel 'b'

3 doz. 2/9 persomnia	£2. 17. 6
1 doz. 5/6 persomnia	1. 18. 4
	<u>£4. 15. 10</u>
special bonus discount 15%	14. 4
	<u>£4. 1. 6</u>
purchase tax	1. 8. 9
	£5. 10. 3

parcel 'c'

6 doz. 2/9 persomnia	£5. 15. 0
special bonus discount 15%	17. 3
	<u>£4. 17. 9</u>
purchase tax	1. 14. 6
	£6. 12. 3

parcel 'd'

3 doz. 5/6 persomnia	£5. 15. 0
special bonus discount 15%	17. 3
	<u>£4. 17. 9</u>
purchase tax	1. 14. 6
	£6. 12. 3

note the special bonus discount applies only to the 4 parcels specified above of which any number may be ordered.



5

good reasons**for specifying RANSOM'S
Oil of Peppermint**

- It comes from the finest plants specially cultivated on Ransom's own farm.
- It is backed by over a century's experience in medicinal plant growing.
- It is distilled under the meticulous supervision of skilled craftsmen and technicians.
- Its quality never varies . . . its excellence is always the same.
- The name Ransom on the label is your guarantee of consistent reliability.

SEND FOR A SAMPLE AND PRICES TODAY

**WILLIAM RANSOM & SON LTD.**
Hitchin Hertfordshire England



**For good
Medicines...**

USE GOOD BOTTLES

UNITED GLASS BOTTLE MANUFACTURERS LIMITED

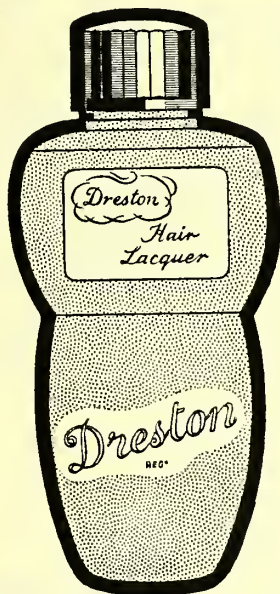
8 LEICESTER STREET, W.C.2

Telephone : GERRARD 8611 (23 lines). Telegrams : UNGLABOMAN, LESQUARE, LONDON

SPECIAL INTRODUCTORY OFFER

FREE

WITH EVERY DRESTON
HAIR LACQUER SPRAY—
A DRESTON
ENRICHED CREAM SHAMPOO
VALUE 7d.



3 REASONS WHY you'll go on selling DRESTON HAIR LACQUER SPRAYS

1. Only 5/6d. retail. Refills 3/9d. Brings the luxury of a high-quality hair lacquer within the beauty-budget of millions more women!
2. Luxury pack. Shaped elegantly for the dressing table. Shaped scientifically to deliver a mist-fine spray.
3. High quality product. Leaves the hair soft and natural looking. Controls the hair without stiffening it. Is not gummy nor oily. Does not flake.

To introduce the Dreston Hair Lacquer Spray to the millions of women, your customers among them, who want a high-quality hair lacquer spray at a price within their purses, Dreston Laboratories make this Special Offer.

With every 18 Dreston Hair Lacquer Sprays you order—we also supply free 18 Dreston Enriched Cream Shampoo Sachets. Supplied in an attractive carton which when opened and displayed will empty very, very quickly.

**LARGE PROFIT FOR YOU . . .
AND FREE SHAMPOOS FOR YOUR CUSTOMERS . . .**

EXAMPLE

18 Free Sachet Shampoos	....	....	No Charge
18 Hair Lacquer Sprays	....	List Price	£2 1 3
		plus purchase tax	1 16 3
YOUR PROFIT	£1 2 6	Total	£3 17 6

Take advantage of this special offer and pave the way for future, repeat sales of these very profitable, high quality products.

**Special Showcard
and removeable
crownor on request.**

Crownor advertising
free offer can be
removed when the
offer has expired.



Dreston

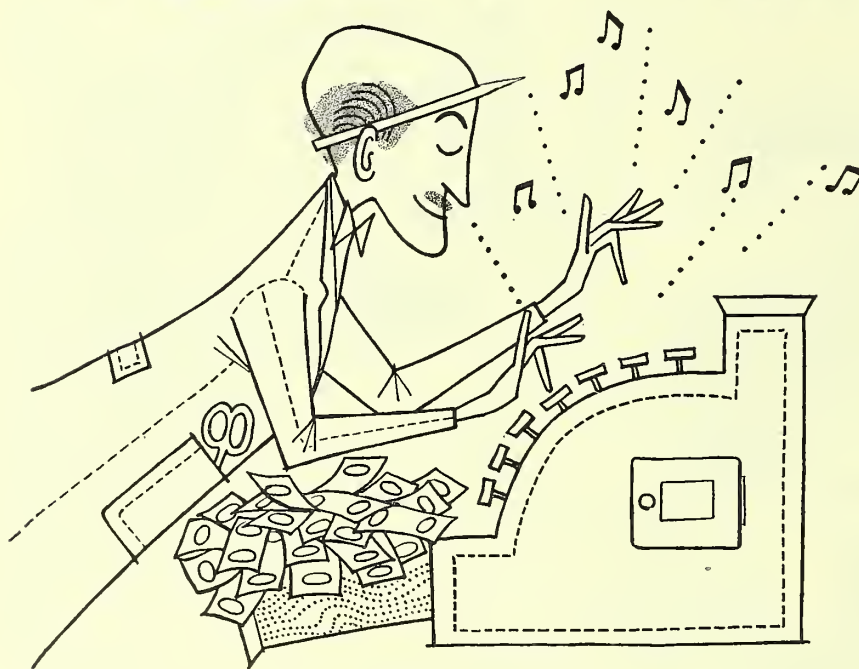
BEAUTY PRODUCTS

Other Dreston high-quality beauty products :

HAIR PERFUME • SPRAY BRILLIANTINE • SETTING LOTION
ENRICHED CREAM SHAMPOO • HAND CREAM

DRESTON LABORATORIES, TURNPIKE LANE, HORNSEY, LONDON, N.8
MOUNVIEW 4148

Bigger Lassie sales!



**Make bigger
profits from
Lassie Bargain Packs
You get full profit
on every sale!**

ALREADY Lassie is top seller of all canned dog foods. Now to bring you even bigger sales, even bigger profits comes a great Lassie offer . . . two special bargain packs at reduced prices! With full profit for you! These Lassie bargain packs come in standard-size cases — two-thirds of each case in bargain packs, one-third in ordinary large or handy tins. Your Lassie business will rise to a new high level!

With this huge Advertising support starting October 17th

TELEVISION

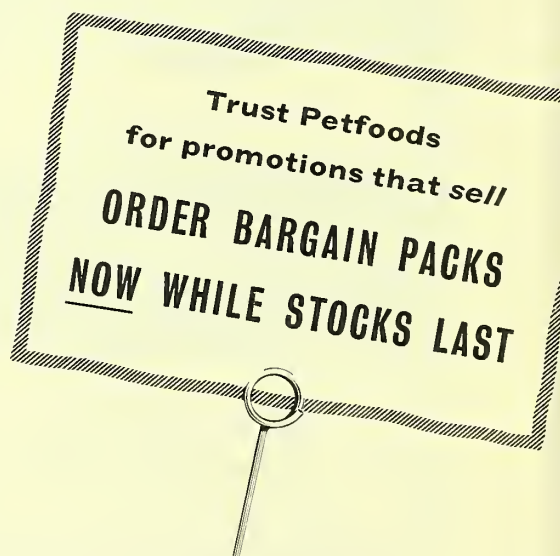
Commercials *every night* on all four stations during the Bargain Pack launching period.

PRESS

Giant spaces in the biggest daily papers . . . Daily Express, Daily Mirror. Major spaces in the two great Sunday papers . . . News of the World, Sunday Pictorial.

* * *

This advertising will bring a huge demand for Lassie Bargain Packs. Make sure you order sufficient supplies from your usual supplier.



Bigger Lassie profits!

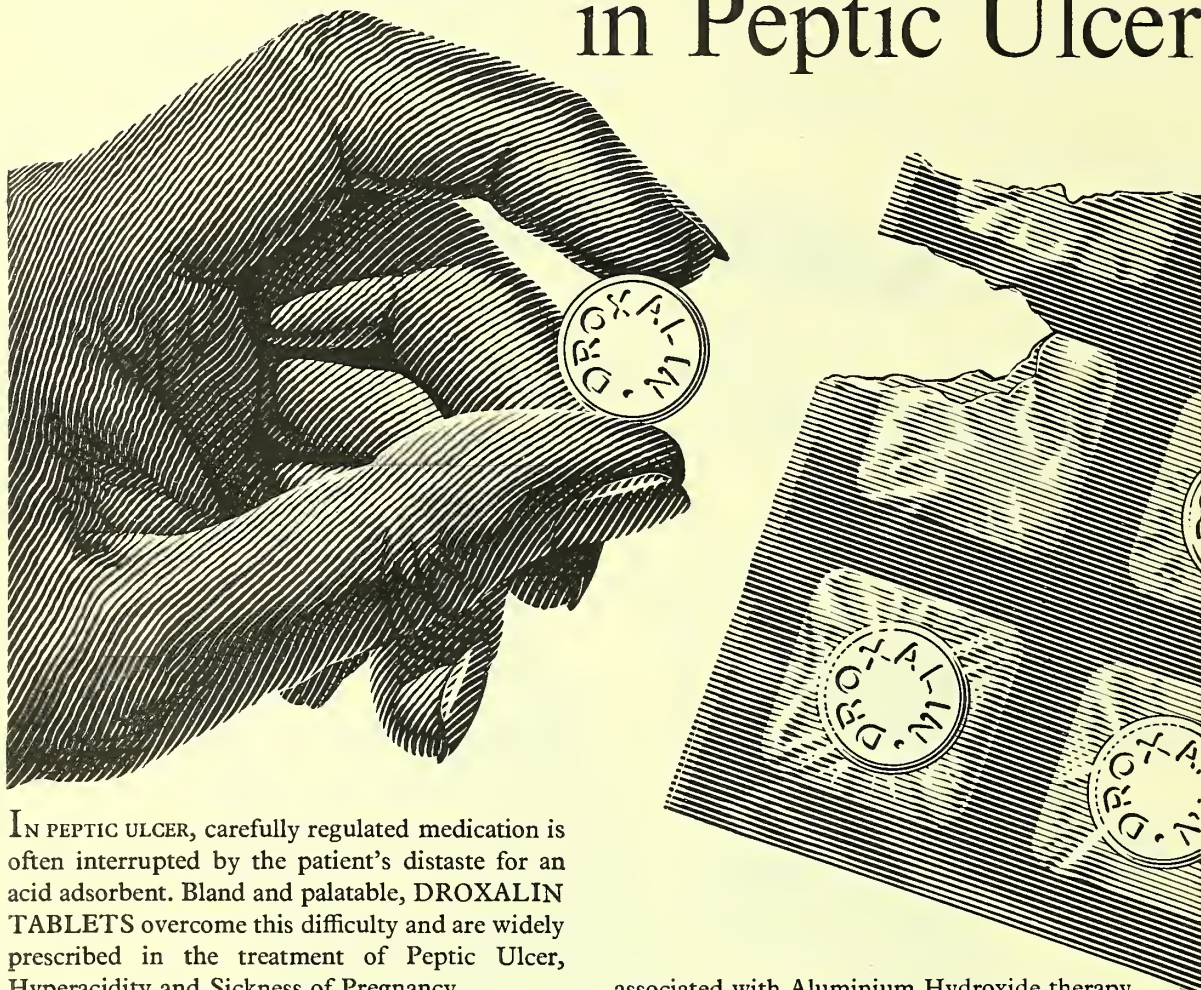
THAT'S WHAT YOU'LL GET FROM THESE

Lassie Bargain Packs!



LASSIE LIMITED, MELTON MOWBRAY, LEICESTERSHIRE

DROXALIN palatability in Peptic Ulcer



IN PEPTIC ULCER, carefully regulated medication is often interrupted by the patient's distaste for an acid adsorbent. Bland and palatable, DROXALIN TABLETS overcome this difficulty and are widely prescribed in the treatment of Peptic Ulcer, Hyperacidity and Sickness of Pregnancy.

DROXALIN combines the two most preferred acid adsorbents—Aluminium Hydroxide and Magnesium Trisilicate. Pleasantly flavoured, the DROXALIN TABLET commands the patient's ready acceptance, being free from grittiness or the metallic taste usually

associated with Aluminium Hydroxide therapy.

DROXALIN gives quick relief from pain by rapid acid adsorption* without danger of secondary acid rise or other harmful side effects. The special film packing enables DROXALIN to be carried hygienically in pocket or handbag.



Active ingredients per tablet:

Gelat. Alumin. Hydrox. Sicc... 2.5 grains Mag. Trisil ... 2.5 grains.

** This will neutralise 50 mls. of N/10 HCl in thirty minutes.*

AT 2/6d. FOR 30 TABLETS DROXALIN SHOWS 34% on S.P.

A Dispensing Pack of 504 tablets is available.

DROXALIN

Doctors receive regular mailings and samplings

SCOTT & TURNER LTD., ANDREWS HOUSE, NEWCASTLE UPON TYNE, I.



The walls of the new branch of Boots Drug Company Ltd., at King Edward Street, Hull, are lined with panels of WARERITE Veneered Plywood, which incorporates stylised lion motifs designed by the owners. WARERITE is also used for wall panelling on the staircase to the lending library.

Design: Architects Dept., Boots Pure Drug Co. Ltd.,
(Chief Architect: C. St. C. Oakes, F.R.I.B.A.)
Contractors: Spooners (Hull) Ltd.
Veneering & Fabrication: A WARERITE Specialist.

Put your premises right on top with **WARERITE** surfaces

REGD.

Ease of cleaning, attractive colourful patterns and hard wear make WARERITE Plastics ideal materials for counters, shelves, table tops, wall panels and many other surfaces.

Customers like them — you will like them — and there are many lovely patterns to choose from.

Write to BAKELITE LIMITED
for details of the

WARERITE
SPECIALIST SERVICE

WARERITE Specialists will supply counter, shelf and table tops, etc., ready to fix, from your drawings or templates, expertly fabricated in WARERITE Veneered Plywood.



REGD.

WARERITE *Plastics with the lovelier patterns*

REGD.

BAKELITE LIMITED, 12-18 GROSVENOR GARDENS, LONDON, S.W.1. SLOane 0898

TGA WA38

BENGERS BRING IN A NEW SALES FACTOR

This is the D-factor

READ ABOUT IT NOW

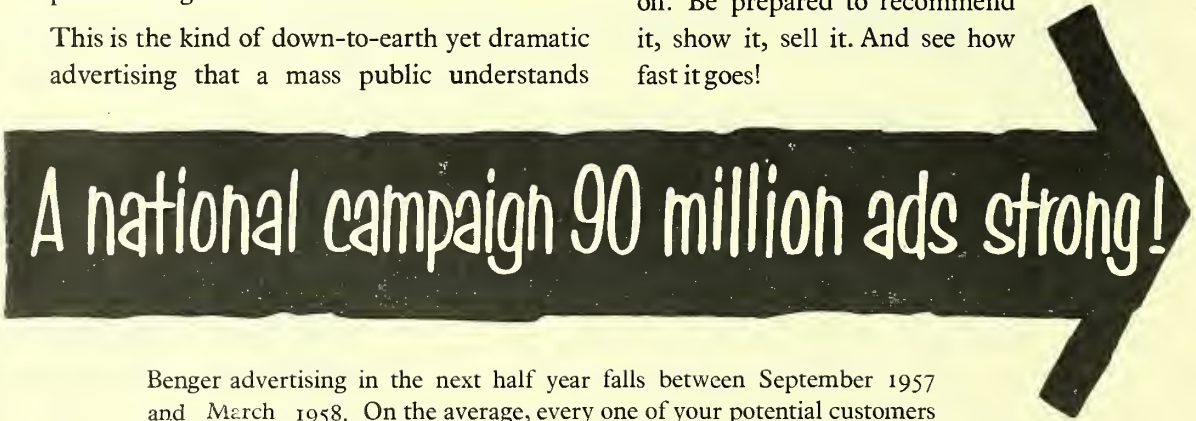
Every customer of yours will know about it this month.

This is your pre-view of Bengers' biggest, most imaginative venture yet into national consumer advertising: a venture that's planned to tell every one of your customers just how and when Bengers can help them at every age at any phase of digestive trouble.

This is the kind of down-to-earth yet dramatic advertising that a mass public understands

and acts upon. We at Bengers believe that its impact is going to show up clearly in your sales records — beginning this month.

Forewarned is forearmed. Look forward now to a big public interest in Bengers — a big demand for Bengers over your counter. So give an eye to your stock shelves now. Keep plenty of Bengers on display from now on. Be prepared to recommend it, show it, sell it. And see how fast it goes!



A national campaign 90 million ads strong!

Benger advertising in the next half year falls between September 1957 and March 1958. On the average, every one of your potential customers should see *and read* Benger ads frequently, regularly, during this period. Here's the break-down: check it in your own daily papers and magazines.

**ORDER NOW! YOUR
FREE SHOWCARD
AWAITS YOU**

Write now to **BENGERS LTD.**
Holmes Chapel : Cheshire

MEDIA & CIRCULATION

Daily Express 4,127,085 *Sunday Express* 3,411,621
Daily Mail 2,138,570 *News Chronicle* 1,394,077 *Daily Telegraph* 1,074,565
Sunday Times 740,133 *Woman* 3,493,294 *Woman's Own* 2,554,553
Woman's Weekly 1,725,602 *Radio Times* 8,469,050 *Family Doctor* 85,000
Good Housekeeping 216,000 *Housewife* 238,565 *My Home* 388,095



into every life comes the D-FACTOR

A BABY WHIMPERS, frets. A child rejects an anxious mother's care. A man is testy, tired. An ageing mother no longer cares, a harassed housewife no longer bothers. Is the D-factor behind them all?

From the moment we open our eyes to the confusing, blinding world that is to be ours for 70 years, the D-factor presses upon our lives. The influences it exerts have not always been related yet they are felt by every man, woman and child in the world. The D-factor affects the life and well-being of babies, grandparents, growing children, men and women in middle age. *That is why it is important for all of us to learn more about it.*

Consider first the way the body works. Most of us, in our lives, consider what doctors call physiology hardly at all. We take breath—but what do we know of our respiratory system? The air of the sea and of the countryside tastes sweet to us; the air of the city often bad. Yet of the processes by which our bodies absorb life-giving oxygen we are often totally ignorant.

We look upon the digestive system in much the same way—yet it is in many respects more delicate and complex even than the respiratory system. We consider 'the fuel' which sustains us—and which is 'converted' and absorbed into the tissues by the digestive system—by means of our tongues and noses.

If food tastes and smells good we accept it, regardless of the state of the system which is to handle it. Yet our digestion may be weak, overworked or failing, affected by the strain of modern living, and in desperate need of all the sympathy we can—for our own sakes—give it. Not a palliative pill of the kind that relieves a temporary condition such as a headache, but rest.

Without this rest and easement the D-factor MUST come into play, causing nervous tension, sleeplessness and physical discomfort—even, in certain cases, decline.

The baby, force-fed 'for its own good' by a well-meaning mother either rejects its milk altogether or presses its delicate digestion beyond its limits—and cries out as a result of it. The child who has been sick either turns aside from the food given to him for his rehabilitation or, struggling, overstrains his weakened system.

The man or woman beset by the difficulties and overwork of a job in factory or office or home, 'feels' it in the digestive system. The older person, with a system tired by time, can't 'face' food that was once relished and resorts to the tea-and-toast diet which is at the root of so much often undetected malnutrition.

In all these instances, superficially so different, there is but ONE common factor—an adverse effect in the life and well-being of the individual. Yet, though symptomatic of so many common conditions, no satisfactory generic name has so far been found for it: we call it the D-factor. Now how can it be countered? In almost every case the D-factor would be offset if it were possible to take the digestive system wholly or partly 'out of commission' . . . *short circuit it . . . go round it . . . pass food through it profitably but without effort.*

IS SUCH A STEP POSSIBLE?

Clearly it would be a possibility only with the discovery of a pleasant, sustaining food which made no demands, or no appreciable demands, upon the digestive system. NOT of course a food which in some way by-passed the digestive system but a food that was already digested. By such a means it would really be possible to rest the digestion and enable the body to fight the debilitating D-factor.

Such a food is in existence NOW.

where
does it
hit you
hardest?



Through a baby...



an ageing relative...



a schoolboy...



a hardworking wife...



a husband or son?

The only effective way to counter the D-FACTOR

Benger's is different from any other food or health drink. *It is partially pre-digested.* As you prepare it the process of digestion is actually taking place right in the cup. Only Benger's contains *enzymes*—the same natural substances that 'break down' food in the human body. This means that much of the hard work of digestion—the enormous task your system takes on every time you eat—is actually done for you. When you drink Benger's you drink a milk and wheat food that's nourishing, and more easily assimilated than other food. And because Benger's imposes next to no strain on the digestion, it provides the only effective counter to the D-factor.



Tough, indigestible lumps formed by milk...



broken down by Benger's—smooth and easy to take

INDICATIONS

Overstrain. One of the greatest symptoms of stress-tension appears when the D-factor begins to operate. The simple, natural way to restore a proper balance, mentally and physically, is to rest the digestive system with a course of Benger's.

Sleeplessness. Ordinary bed-time drinks satisfy many—but they don't rest the digestion. Benger's is different—it has enzymes to do the digesting. This means that you get a good night's rest—with no mid-time D-factor.

Constipation. Those inevitable illnesses drag children down—through the D-factor. They don't feel like food. Benger's nourishes and rests weakened digestions—in adults as well as children.

Old people. Here the D-factor strikes through 'tired' digestion. Benger's is as good as a light meal—and far lighter on a run-down system. Many old folk actually live—happily and contentedly—on Benger's alone.

Babies who can't or won't take milk will take Benger's, and babies who progress poorly on ordinary milk should thrive on Benger's—because their delicate systems don't have to grapple with a task that's too big for them. No D-factor.

PREPARATION AND FLAVOUR

Notwithstanding the digestive process which takes place as you prepare Benger's, this nourishing food is not difficult to prepare. It has a mild, bland taste which appeals when strong flavours are unacceptable. But it is easily flavoured, when desired, with chocolate, coffee or malt—anything you favour.

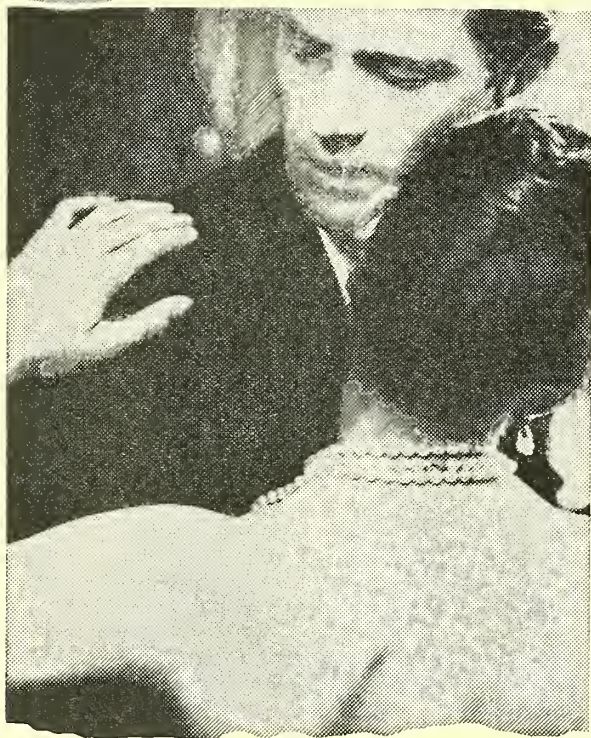
WHERE CAN YOU GET BENGERS?

Every chemist and store has Benger's—in tins at 3s., 5s.3 and 9s. Buy a tin now and be ready to beat the D-factor the moment it shows itself—in you or any member of your family.



Fight the D-FACTOR with BENGERS

CARE



I wished I hadn't turned his head

Suddenly he glanced round and I *remembered*. How red and rough my hands were. I was so ashamed, but I'd tried everything, and nothing seemed to do any good. Then he told me about Care, the wonderful new lanolin handcream the doctors at the hospital use. Care has a special antiseptic called Octaphen. I tried Care and found it really did work. In no time at all my hands were white and smooth and lovely.

Care is perfumed with French Moss, and costs 1/9 and 2/9, by Field's of Bond Street, London.



CARE FOR YOUR CUSTOMERS!

The *best* of handcreams . . . CARE really does work. Customers come back for CARE again and again and so do their friends!

The *best advertised* of handcreams — see the new advertisements more heavily concentrated than ever before . . . already appearing in all the best women's magazines and *continually* in the Daily Mirror.

The best of handcreams to *display* . . . you care for your turnover when you display CARE. For the highest handcream sales, put the new CARE display outer on your counter and see how CARE sells! Order now!

CARE HANDCREAM

1/9 (8/10 a dozen) and 2/9 (13/9 a dozen)

J. C. & J. FIELD LTD.,
Church Street, Amersham, Bucks.

no dandruff**on this comb**

In just four to six weeks, SELSUN restores the scalp to a clean, healthy condition. Then — without further care — the patient's scalp remains free from the scaling, itching and burning of seborrhoeic dermatitis for one to four weeks. Clinical reports covering more than 400 cases show that SELSUN controls 92 to 95% of common dandruff cases, 81 to 87% of all seborrhoeic dermatitis cases. SELSUN is remarkably simple to use. Patients just add it to their regular hair-washing routine. It rinses out easily, leaves the hair and scalp clean and easy to manage. **Abbott**

Available in 2 and 4 fl. oz. bottles, with directions for use.

(Selenium Sulphide, Abbott)

ABBOTT LABORATORIES LIMITED · LONDON

Repair Service

OF ELECTRIC BLANKETS

Denhams' factories have unmatched experience in repair and overhaul for the trade of **ELECTRIC BLANKETS & PADS** of all makes, British & Foreign. **LARGEST AND LONGEST ESTABLISHED RAPID 5 DAYS' SERVICE**

Nationally known for thoroughly reliable and inexpensive repairs. Free estimates on request.

Service Department :—

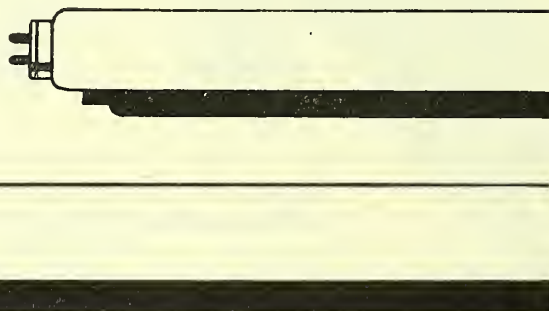
DENHAMS (NCH) LIMITED

ST. GEORGE'S WORKS, ALL SAINTS ROAD, LONDON, W.3

★ NORVIC LOW VOLTAGE ELECTRIC BLANKETS WERE SELECTED FOR USE BY THE TRANS-ANTARCTIC EXPEDITION



Think of it... a year's guaranteed light with Osram Tubes



The *superb quality* of Osram tubes enables us to offer a *guarantee* with every tube that it will be replaced FREE if it fails in normal service before 3,000 hours or one year whichever is the shorter. And you still have the well known high light figures for the first 5,000 hours use.

It makes sense to specify —

Osram
THE GUARANTEED TUBE

A **G.E.C.** Product The General Electric Co. Ltd.



MILLIONS* LIKE US LIKE RED HEART

★ The three to four million dogs in Britain provide a wonderful ready-made market for RED HEART DOG FOOD—

the right feed for every breed.

There are between five and six million cats too! So stock up with RED HEART CAT FOOD as well



*a PROVED
fast seller*



CVS-99

Press...

TV...

Showcards...

Crowners...

...still more promotion for

'SANATOGEN' TONIC WINE



and you can feel it doing *your profits good!*

The new season will see a step-up in Sanatogen Tonic Wine sales effort. Press advertising is to be extended, an increase in television time is scheduled, and as usual there is full support for you in the shape of display material — including a colourful and attractive new crowner.

Now is the time to renew your stocks and bring your point of sale material up-to-date.

Write today to:—

The Sole Distributor

Whiteways Cyder Company Ltd. Whimpe, Devon.

London Office: Glasshouse Walk, Vauxhall, S.E.11

make it your business....

Clary

**THE CASH REGISTER THAT DOES
ITS OWN BOOKKEEPING**

...to invest in **Clary** the cash register that does its own bookkeeping and whose modern yet dignified appearance will be an asset to your business.

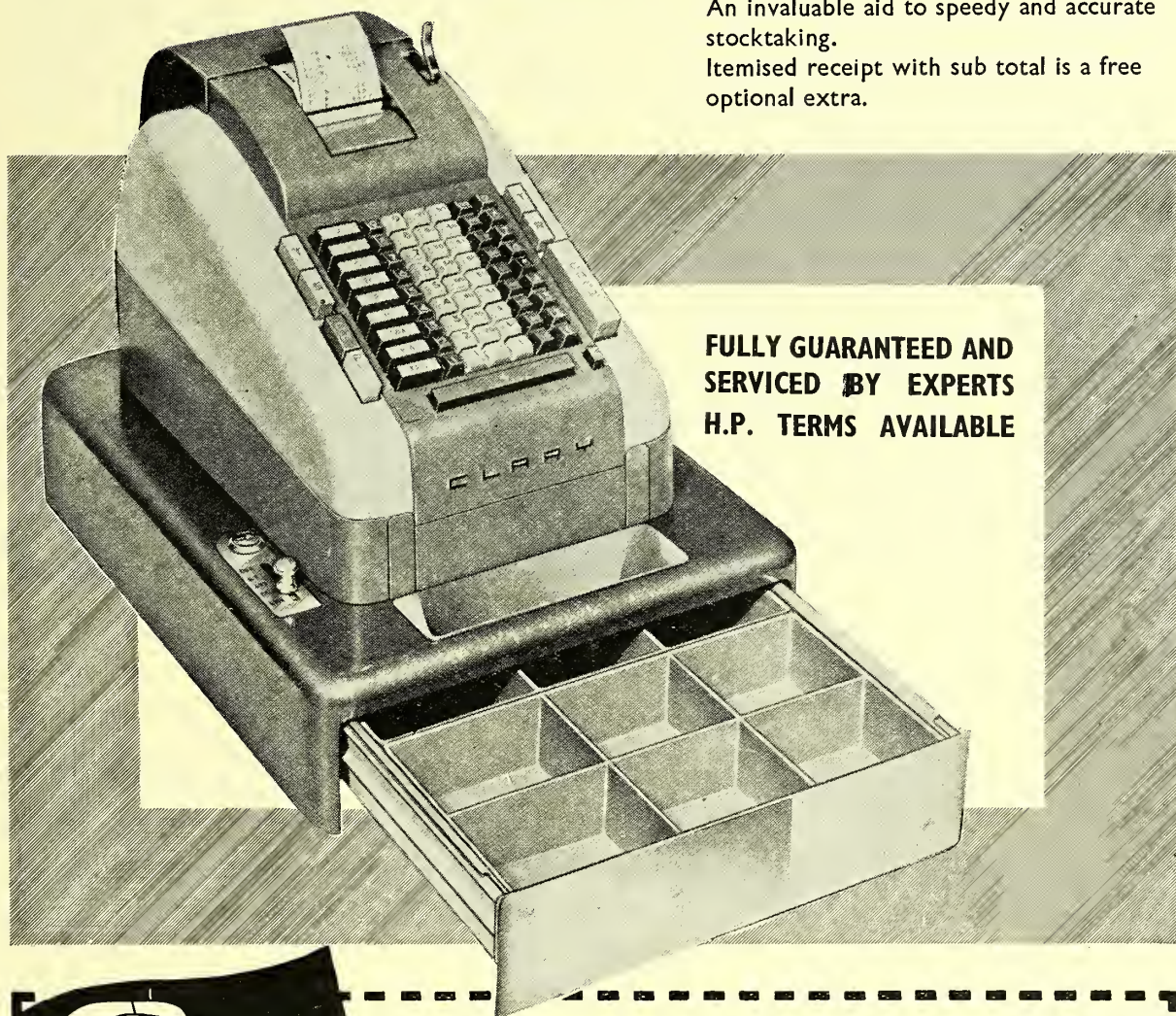
The visible detail roll permits written entries; a great advantage when keeping prescription records. Last 12 items always visible for supervision.

Can be used as an adding machine without disturbing cash total.

The only cash register that subtracts as well as adds.

An invaluable aid to speedy and accurate stocktaking.

Itemised receipt with sub total is a free optional extra.



**FULLY GUARANTEED AND
SERVICED BY EXPERTS
H.P. TERMS AVAILABLE**



SEND FOR FULL DETAILS NOW

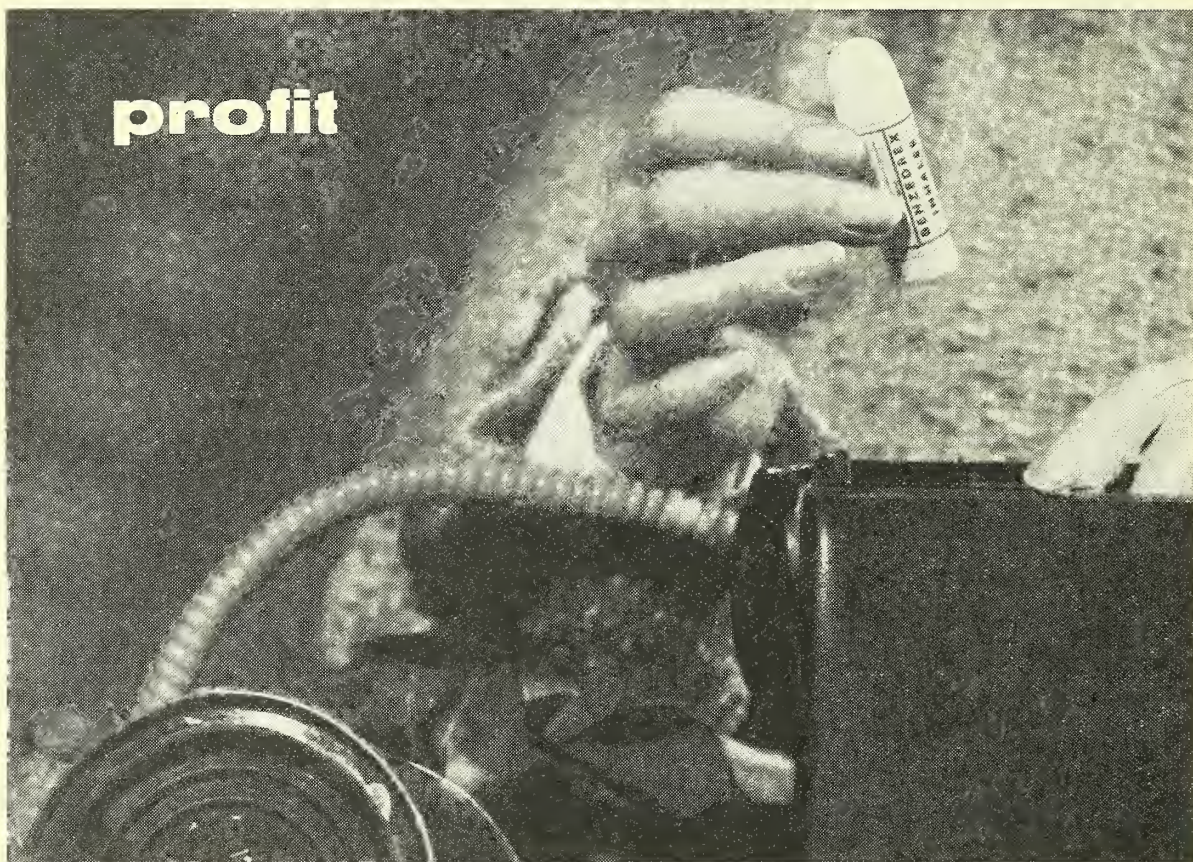
Clary Cash Registers, CDI, 15 Percy St., W.I. Tel: Langham 1614.
Send me, without obligation, details of Clary Cash Register.

NAME

ADDRESS

picture of a

profit



**Twice the profit—and
twice the sales with
'Benedrex' Inhaler
on Display Bonus**

There's twice the profit to be made selling 'Benedrex' Inhaler. Each 'Benedrex' Inhaler brings you nearly 1/- profit—and there is still further profit to be made! If you order 'Benedrex' Inhaler in dozens, you gain by the special Display Bonus terms. Remember that every order of one dozen 'Benedrex' Inhaler brings the 1957 two-colour Display Pack—to increase your sales—plus an extra FREE Inhaler.

AN



PRODUCT

Smith Kline & French Laboratories Ltd COLDHARBOUR LANE, LONDON SE5

BX:TA137

'Benedrex' is a trade mark

E. Illingworth & Co. (Bradford) Ltd.

Cotton Wools

B.P.C. QUALITY COTTON WOOLS
HOSPITAL QUALITY COTTON WOOL
(Drug Tariff)

Sterilised and Unsterilised in all weights, for
Home and Export.

Quantities labelled with
your own labels

*COTTON WOOL DISPENSER
(Pleated filling. Attractive Pack)

BOTTLE NECK WOOL, FILTER PADS
WOOL AND COTTON TISSUE B.P.C. Quality
RESPIRATOR REFILLS
KNITTED BANDAGES

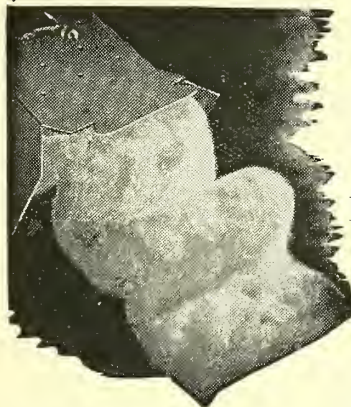
Packing Materials

NEEDLELOOM FELTS

for thermal, sound and vibration insulation
and protection.

Cotton Wools

Bleached and Unbleached Rolls from
2 in. to 40 in. wide, weights 3 oz. per
sq. yd. upwards.



**Only as much as is
needed is pulled out
at a time!*

Illmond Cotton Wool Dispenser Pack

Package has tuck-in
ends and can be re-
sealed. Hygiene en-
sured. Elegant design
of pack makes it
perfect for a lady's
dressing table.

E. ILLINGWORTH & CO. (BRADFORD) LTD.

Shelf Mills, Shelf, Halifax

Tel : Bradford 76261-5

Grams: "Illmond" Bradford



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and
all sections of the drug, pharmaceutical and
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland*

Volume 168

October 5, 1957

No. 4050

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at 28 Essex Street, Strand, London, W.C.2

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Branch Offices:

BIRMINGHAM, 2: 111 New Street. Phone: Midland 2921.
GLASGOW: 160 Nether Auldhouse Road, S.3. Phone: Langside 2679.
LEEDS, 16: 32 Wynford Rise, West Park. Phone: Leeds 67 8438.

ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Diary and
Year Book, £2 10s. Single copies one shilling each.

WRIGHT'S COAL TAR INHALER & VAPORIZER

Ample Supplies are available NOW!



Complies with the specifications set out in part IV of the N.H.S. Drug Tariff.

Complete with full size bottle of Vaporizing Liquid,
and six night lights. Retail 7/9
Vaporizing Liquid Refills. Retail .. 1/9 & 5/4
Spare absorbent blocks. Retail .. 1/- each

The Vaporizing Liquid cannot spill if the apparatus is accidentally knocked over while in use.



Obtainable from all Wholesalers, or direct from

WRIGHT LAYMAN & UMNEY LTD., SOUTHWARK STREET, LONDON, S.E.1.

Bradosol Lozenges

each containing 0.5 mg. Bradosol (β -phenoxy-ethyl-dimethyl-dodecyl ammonium bromide)

**for Mouth and Throat Infections
of both bacterial and fungal origin**

INCLUDING ORAL THRUSH

Tubes of 20 lozenges (2/6)

Subject to a discount of 33½% to retail pharmacists. Exempt Purchase Tax

C I B A

'Bradosol' is a registered trade mark. Reg. user

CIBA LABORATORIES LIMITED, HORSHAM, SUSSEX

Telephone : Horsham 4321 Telegrams : Cibalabs, Horsham

The CHEMIST AND DRUGGIST

Volume 168

OCTOBER 5, 1957

No. 4050

"Don't Act Now" Plea

N. P. U. WANTS EDUCATION DISCUSSED

THE National Pharmaceutical Union Executive is asking the Council of the Pharmaceutical Society to delay action on the three-year diploma course until members of the Society have had an opportunity "to consider the proposals and express views."

A resolution incorporating the request was passed at a recent meeting of the N.P.U. Executive. Only three members of the Executive voted against the resolution and Mr. Gwilym Hughes (the Society's vice-president) abstained and took no part in the discussion. The Executive thinks that the education proposals should be discussed by branches of the Society, and that a Branch Representatives' meeting should be then held before March 1958 to discuss the matter, and that on the day after the Branch Representatives' meeting a special meeting of the Society should be held. Full report, p. 372.

"Repeats" on EC10 (H.P.)

INVALID AND "NUISANCE TO CHEMIST"

THE difficulty which is created by hospital doctors who issue repeat instructions on form EC10 (H.P.) (or form R.B.P. in Scotland) is pointed out in *Prescribers' Notes* (September) recently distributed to doctors. The general rule, it is stated, is that instructions for repeating a prescription cannot be given on National Health Service prescriptions. Many hospital doctors believed that the issue of such a prescription would reduce the amount of charge

payable by the patient. A "repeat" instruction, however, was invalid, did not help the patient financially and was a definite nuisance to the retail chemist. The best course for the doctor might be to refer the patient back to his general practitioner with an appropriate letter or to issue the required number of separate forms, forward-dated as appropriate.

Chemists Federation

COUNCIL MEETING

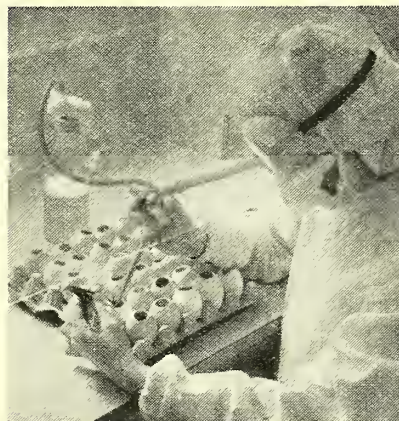
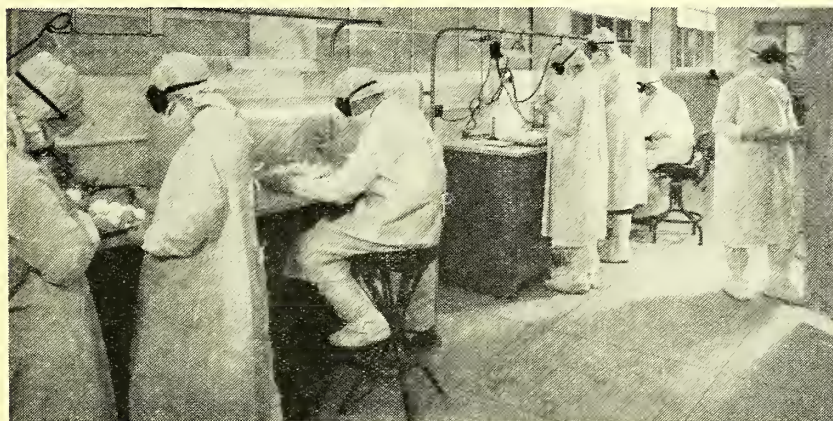
A MEETING of the Chemists Federation council was held on September 19, the president (Mr. W. Talvan Rees) in the chair. Meetings of committees were held on the previous day. The following additions to C.F. agreements were approved:—Allen & Hanburys, Ltd. (Teoquil gel and dusting powder); Crookes Laboratories, Ltd. (Pectobalm); Silten, Ltd. (Silbplex injection, elixir and vitamin B-complex, Silbe calcium syrup). It was reported that C.F. action committees had been formed in Walsall (secretary, Mr. F. A. C. Bannister) and Rochdale (secretary, Mr. A. S. Wild). The following C.F. meeting has been arranged:—October 7, at Isle of Thanet at which the speaker is Mr. P. D. J.

Spaanderman. C.F. representatives have been visiting pharmacists in Sussex, Kent, Bristol, Somerset and Lancashire, it was reported.

Inflation and N.H.S.

A "CONSIDERABLE FACTOR" CLAIM

NATIONAL Health Service expenditure was now so great, said MR. S. BROWN (president) at the annual conference of the Executive Councils' Association (Scotland) held at Pitlochry, Perthshire, September 26-27, that it must be a considerable factor in the national problem of inflation. The British people were capable of better things, he thought, than breaking records in the consumption of drugs. High prescribing costs were referred to by MR. J. ANDERSON (secretary, Department of Health for Scotland) speaking on September 27. He recalled that at the conference in 1956 Mr. Nixon Browne (Joint Parliamentary Under Secretary of State) devoted a considerable part of his speech to that question. The cost of the pharmaceutical services in 1949 was £3½ millions and in 1956 it was nearly £6½ millions. The number of prescriptions issued had risen from just over 17 millions to 21½ millions. That was the background to the Secretary of State's decision to set up a committee whose object was to look into prescribing practice both in the general medical service and in the hospital service to see if there were any acceptable ways by which the progressive increase in prescribing costs could be curbed. He was sure that the Executive Councils and the Local Medical Committees would be able to provide some of the most valuable evidence that would



PRODUCTION OF ASIAN FLU VACCINE: Glaxo Laboratories, Ltd., Greenford, Middlesex, are producing an influenza virus vaccine to give protection against Asian influenza. Following a successful small-scale run at Greenford the company decided to expand production and towards the end of September a manufacturing unit began operations at the company's large-scale production plant at Ulverston, Lancs. The final stage of the work is carried out at the company's headquarters at Greenford. The Glaxo vaccine is prepared from strain A/Singapore/1/57 obtained from the World Influenza Centre, Mill Hill. Photograph shows, left, inoculation of ten-day-old chick embryos with the Asian strain of influenza virus; right, harvesting the virus fluid from the eggs. Pictures were taken at the virus vaccine production unit, Glaxo Laboratories, Ltd., Ulverston.

come before the Committee on Prescribing Costs.

Influenza Vaccine

FIRST SUPPLIES DISTRIBUTED

FIRST supplies of the British Asian influenza vaccine were distributed to regional hospital boards and boards of governors of teaching hospitals in England and Wales on October 1. Announcing the distribution, the Ministry of Health stated that supplies would be used to inoculate hospital doctors, nurses and other staff under the Government's special scheme. The first issue will be enough for 65,000 injections and it is hoped that supplies for general medical practitioners and local authority health staff will be issued next week and that further supplies will be available at frequent intervals. The vaccine, prepared by a team under Dr. F. Himmelweit (director, virus research department, Wright-Fleming Institute of Microbiology, St. Mary's Hospital Medical School, London, W.2) is being distributed by Parke, Davis & Co., Ltd., Hounslow, Middlesex, who handle the vaccines of the Wright-Fleming Institute (see *C. & D.*, August 17, p. 165). With each batch of vaccine there is a pamphlet listing possible side-effects and contra-indications.

In the 160 great towns of England and Wales, 121 deaths from influenza were registered in the week ended September 21, compared with forty-seven the previous week. Although there has been considerable spread among the adult population in a few districts the general picture is that it is mainly children who have been affected by the epidemic.

U.S. Council on Drugs

ANTIBIOTICS AND INFLUENZA

UNCOMPLICATED cases of influenza whether Asian or otherwise should not be treated with sulphonamides or antibiotics according to suggestions given by the Council on Drugs of the American Medical Association published in the September 7 issue of the *Journal of the American Medical Association*. Neither the sulphonamide group of drugs nor the antibiotics have any therapeutic effect whatsoever on the viruses of influenza and their use is "contrary to good medical practice." The possibility of building up of drug resistance is the main reason for the advice but, where secondary bacterial complications such as pneumonia have set in, the Council say that the patient should be treated with either an antibiotic or a sulphur drug.

Limiting Effects

W.H.O. STATEMENT ON 'FLU VACCINE

THE aim of vaccines composed of isolated strains of Asian influenza virus was not to stop the epidemic by vaccination but to limit its effects by preventing high death rates and excessive absenteeism, said the World Health Organisation in an announcement from Geneva on September 27. Information reaching W.H.O. headquarters regarding the use of the new virus A/Asia/57 as a vaccine were not very encourag-

ing and initial tests carried out in manufacturing laboratories, national centres and the World Influenza Centre in London, showed that the virus had very little antigenic potency.

Examination Results

INTERMEDIATE SUCCESSES

THE following candidates satisfied the examiners in the Intermediate examination held by the Pharmaceutical Society in England and Wales in September:—

ADIGUN, Clementina M., Brixton; ASHLEY, D. G., Gidea Park; AYLWIN, Jeanette P., Dawlish; BANKS, J. S., Ealing; BARNETT, G. F., St. Albans; BENJACAR, J. F. L., Colchester; BERRIMAN, P., Petersfield; BERRY, C. J., Manchester; BOORMAN, Janet K., Bognor Regis; BRITTON, D. T., Uckfield; BUDDEN, Norma D., Poole; CLIVE, G., Johannesburg; COULSON, Gillian M., Virginia Water; EAGLES, C. J., Reigate; ECKERSLEY, Margaret, Manchester; EVANS, Mari E., Aberystwyth; FARINGTON, B. H., Southwold; FREEMAN, L. F., Reading; FROME, V., Clapton; GERRED, A. J., Southampton; GRANGE, G. G., Ruislip; HANDS, C. J., Birmingham; HOUSEAGO, D. K., Great Yarmouth; HUNT, B. C., Llandudno; JESSEL, Carole, West Green; JOSEPH, N., Liverpool; KIDDLE, R. G., Bristol; LEWIS, Angela M., Worthing; MANTLE, Joan R., Crosskeys; NOTT, Pamela E., Paignton; NYHAN, Norah, Birkenhead; ODDY, Margaret E., Huddersfield; OKOYE, E. N., Leicester; PARRY, Margaret C., Pwllheli; PIATT, K., Wirral; PUGSLEY, Shirley A., Nottingham; REEVE, Margaret, Colwyn Bay; RIGBY, P. A., Southampton; SANDU, B. S., Chelsea; SECCOMBE, P. C. H., Broadstairs; SEEHRA, K. S. B. S., Leicester; SMITH, P. J., Keighley; STEPHENS, D. G., Bristol; TRIGUES, P. E., Pinner; UNDERHILL, R., Portsmouth; WALLIS, Vivien M., Thornton Heath; WALTON, Ann, Penge; WARD, L. J., Sheffield; YOUNG, N., Lytham St. Annes.

Refresher Course

OPEN TO CROYDON'S NEIGHBOURS

THE refresher course for pharmacists organised by Croydon Branch of the Pharmaceutical Society (see *C. & D.*, September 14, p. 283) is open to members of neighbouring branches of the Society and to those engaged in medical or pharmaceutical work who are not pharmacists. So far, seventy have enrolled for the course, which deals with "Pharmacology in Relation to Modern Pharmaceutics." Applications should be sent to Mr. G. F. Clark, 9 Palace View, Shirley, Croydon, Surrey, accompanied by fee of £1 10s.

IRISH NEWS

THE NORTH

Associates' Section

MONTHLY COMMITTEE MEETING

FOLLOWING the resignation of Mrs. C. O'Rourke from the chair of the Associates' Section of Ulster Chemists' Association (see *C. & D.*, August 31, p. 214), it was unanimously agreed by the committee of the Section at a meeting in Belfast on September 16, to elect Mr. W. T. Hunter chairman for

the remainder of the year. A letter was received from the Association's executive committee asking for a Joint Council meeting on September 17, to discuss certain aspects of the Associates' claim for an increase in wages. Letters of resignation from the main and social committees were received from Mrs. C. O'Rourke, Mr. T. O'Rourke and Miss N. Robinson. A report was presented of the social subcommittee's meeting on August 20, and it was noted that a Hallowe'en dance is being held on October 24 at the Windsor school of dancing. Preliminary arrangements were made for the annual meeting, and the draft annual report and balance sheet were approved. It was agreed to ask the Pharmaceutical Society of Northern Ireland for the use of their main hall on November 7 for the meeting. The following members are due to retire from the Associates' committee, and have offered themselves for re-election:— *Ph.C. representatives*, Messrs. J. Kerr, E. G. Mackle, W. Mitchell; *student representatives*, Messrs. R. J. Davidson, A. J. T. Thompson. Mrs. C. O'Rourke and Messrs. J. White, F. R. Trimble and R. J. McBride have resigned from the committee. Mr. R. J. Davidson qualified as a pharmacist during his term of office but is eligible to stand as a Ph.C. representative. There are, therefore, two vacancies for Ph.C. representatives and two vacancies for student representatives. The following applications for associaship were approved:— *Pharmaceutical Chemist*, Messrs. J. M. S. Bingham, E. J. Crossin, B. O. Rankin; *Unqualified Assistant*, Messrs. T. A. Carson, J. K. Fegan, R. Holden, G. F. McGeough, and Misses M. McKee and C. Mullan; *Apprentice*, Miss M. J. Patton and Mr. J. A. Robinson.

THE REPUBLIC

Health Insurance

SCHEME TO AID HOSPITAL PATIENTS

A VOLUNTARY health insurance scheme has been introduced in the Republic of Ireland. Three scales of premiums and benefits are designed to cover hospital in-patients to protect them against heavy costs. It does not apply to general medical practitioner services. Annual premiums range from £3 15s. for an adult in the lowest scale of the scheme to £23 10s. for a married couple with four or more children on the highest scale. The maximum period of hospital benefit is ten weeks in any one subscription year. The Irish Government has made a repayable advance of £20,000 to meet the voluntary health insurance board's initial costs and there is provision in the Voluntary Health Insurance Act for a further repayment advance of £25,000 to meet any losses that may occur during the first five years in which the scheme is in operation.

Students' Dance

ASSOCIATION'S EVENT IN DUBLIN

THE Irish Pharmaceutical Students' Association is holding a dance at the Metropole ballroom, Dublin, at 9 p.m. on October 10.

NEWS IN BRIEF

AMONG local exhibitors at the recent five-day Grantham trades fair were Whysall & Sons, Ltd., chemists, 64 High Street, Grantham, Lincs.

SUMMER time ends on Sunday, October 6, at 2 a.m. Clocks should be put back one hour at close of business on October 6. Summer time in 1958 is from April 20 to October 5.

AN all-night chemist is needed in Romford, Essex, said a delegate at a recent meeting of local organisations. Delegates from the local chamber of commerce promised to look into the matter.

DR. A. A. Miles (professor of experimental pathology, University of London, and director of the Lister Institute of Preventive Medicine), Dr. C. H. Stuart-Harris and Sir George Franklin (professor of medicine, University of Sheffield) have been appointed members of the Medical Research Council.

THE Ministry of Health announced on September 30 that welfare orange juice for children over two years of age was to cease from November 1. A medical committee on welfare foods recommended in July that orange juice should not be provided for children over two as scurvy was almost non-existent after that age.

SPORT

GOLF.—LONDON CHEMISTS' GOLFING SOCIETY, at South Herts golf club, on September 26. *Yardley cup*, A. S. Jerwood (21), 74; *Aspro rose bowl*, N. Martin (18), 4 down on bogey; *British and Colonial cup*, H. A. Coward (14), 77.

ULSTER CHEMISTS' GOLFING ASSOCIATION, captain's day, at Shandon Park golf club, on September 25. *Captain's prize*, 1, W. Beattie; 2, W. Moffett. *Best gross*, Mr. J. McCay. Among guests at dinner were Mr. C. A. Quinn (president, Pharmaceutical Society of Northern Ireland), Mr. E. W. Massey (captain, Irish Chemists' Golfing Society), Mr. J. Foley, Mr. M. Lynch, Mr. P. McAuliffe and Mr. G. L. Cooke (captain, Shandon golf club). Mr. J. Jennings was elected captain for 1958.



SCORE OF 108: W. G. Ambrose (assistant managing director, Beecham Pharmaceuticals, Ltd.) with N. C. Francis (Madeans, Ltd.) who scored 108 for the representative Beecham group cricket eleven (167 for 9), who lost to G. S. Royds, Ltd., their advertising agents, by six wickets at Dorking cricket club ground, recently.

TOPICAL REFLECTIONS

By Xrayser

Liverpool Meeting

In writing a weekly column such as this, one begins to feel an affinity with Betsy Trotwood's Mr. Dick who, it will be recalled, found it impossible to get away from the recurring image of King Charles's head. Two subjects with a parallel effect on the writer would appear to be National Health Service affairs and pharmaceutical education, though the excuse may be offered that both topics are more alive than was the head of King Charles. Every week, in some part of the kingdom, there are references—uneasy and anxious references—to the future of pharmaceutical education in the realm of the diploma. It is the turn of Liverpool to express its views, and Mr. B. M. Kelly, in his presidential address to the Association and Branch in that city, has expressed fears which have been uttered in many other parts of the country (p. 359). It does not appear to be sufficient reassurance to say, as Mr. J. Farrer Barnes said, that the Society had no intention of giving up the diploma while there was a single student in Britain wishing to take it up, for, as Mr. Kelly said, the School of Pharmacy, London University, no longer accepts diploma students, and the places available in Manchester are now fewer than they were. If the position is reached in which the schools and colleges no longer feel it worth while to train for the Society's diploma, it is little consolation to be told that the Society is still prepared to examine. More than one speaker in more than one centre has expressed the fear that the Council's policy—intentional or otherwise—may speed the demise of the diploma, and for the time being, official statements do not appear to carry sufficient conviction to allay anxiety.

National Service

The tragic news, as I write, of the ambulance plane disaster in the island of Islay, Argyll, brings home to the city dweller an aspect of the National Health Service which normally gives him little thought. The people in densely populated areas are accustomed to seeing ambulances in the street daily, and there are several hospitals within a comparatively small radius, where visiting the sick is generally merely a matter of a short tube or bus journey. It does not occur to one so placed that even in the relatively small area covered by Great Britain there are outposts so remote that a special air ambulance service provides the only possible link, in urgent and serious illness, between the islands in the West Highlands and the modern hospital. That this service has gone on without mishap for nearly a quarter of a century has perhaps caused public forgetfulness of a bold and imaginative scheme which captured the attention of those in urban areas at the time it was introduced. All will mourn the disaster which has ended a record free from mishap for twenty-four years. The courage and faithfulness of pilots and nurses under all sorts of climatic conditions is vividly brought into prominence only in time of tragedy.

More Necessary Than Ever

The intimation contained in an editorial notice (p. 347) of a new edition of the "Chemists Dictionary of Synonyms"—it is always difficult to know where to put that apostrophe, and your omission of it has simplified my problem—is most welcome. I have, in past years, found the concise little volume of the greatest possible value, for one never knows when the odd name will turn up. It only needs one artisan of a roving disposition to give up his job in Birmingham and take up a post in Basingstoke for a strange request to be made to the local pharmacist. And the Birmingham gentleman will probably express astonishment, not to say incredulity, if something he has been buying for years in his native city is unknown in the place of his adoption. The Dictionary is not, of course, in daily use, but it is a great comfort to know that it is at hand on the bookshelf. To a certain extent there has been a diminution in the demand for local favourites in recent years, but that only makes the Dictionary more necessary than ever. Particularly would I recommend it to the newly qualified, who has less opportunity of knowing about crabs' eyes than the apprentice of old.

NATIONAL PHARMACEUTICAL UNION

Executive request to Society's Council: "Delay action on three-year course"

MEETINGS of the National Pharmaceutical Union Executive and related committees were held in London on September 24 and 25. Mr. P. D. J. Spaanderman in the chair. Messrs. T. Heseltine and F. G. Wells were absent.

Society's Educational Policy

The official report of the meetings records that "After a lively debate in which Mr. Gwilym Hughes took no part and did not vote because of his official position as vice-president of the Pharmaceutical Society, it was resolved 'that this Executive requests the Council [of the Pharmaceutical Society] to delay action with regard to the proposal for a three-year course for the Ph.C. diploma until the membership have had adequate opportunity to consider the proposals and express views.' Messrs. Brocklehurst, Steinman and Tristram voted against the resolution. The collective view of the Executive Committee was that an adequate opportunity to consider the proposals and to express views would arise if the matter was brought under discussion in the Society's branches during the next few months and if then a Branch Representatives' meeting was to be held to discuss the matter some time before March 1958, such a meeting to be followed by a special meeting of the Society on the following day."

Television Publicity Scheme

The Executive endorsed the action taken by the subcommittee responsible for initiating and carrying through the arrangements for the television publicity scheme which is being launched in the London, Midland and Northern television regions in the latter half of November and to continue until about December 20.

Branch Representatives' Conference

Items for inclusion in the agenda for the branch representatives' conference in London, October 31, were finalised as follows:—(a) A survey of N.P.U. activities including their financing, publications, clearing house, effects of the Restrictive Trade Practices Act, television advertising; (b) N.P.U. local organisation; discussion on existing arrangements and any changes considered necessary; (c) a possible triennial convention, the first to be held in London, in the spring of 1959, to comprise business sessions, a trade exhibition and a programme of social activities; (d) pharmaceutical education; an opportunity is being provided to ventilate the views of the practising retail pharmacist; (e) marketing policies and projects; a report is being presented by the marketing policy committee; (f) a report on N.H.S. matters (for information—any decisions or actions are the prerogative of the conference of Pharmaceutical Committee representatives); (g) the work and future of the Chemists Federation.

The name of Mr. J. McClenahan, M.P.S.N.I., was submitted in place of the secretary for appointment to the trustees of Queen Square.

A grant towards the costs of a series of cultural visits arranged for German

pharmacy students when returning via London from the conference of the International Pharmaceutical Students' Federation in Dublin was approved.

The problems presented by rotabreakers were again discussed without resolution.

Membership

Twenty-three persons or firms who had applied for membership since the previous meeting were elected.

N.H.S. Matters

A report by the Central N.H.S. (Chemist Contractors) Committee, presented by Mr. G. H. M. Graham, included the following matters:—

N.H.S. DISPENSING COSTS INQUIRY

So far the committee has not succeeded in getting from the Ministry officials a satisfactory undertaking that any settlement arising from the inquiry will operate in respect of the period to which the facts established by the inquiry relate. The management side of the Whitley Council still "take the view that the date of operation of an agreement is something to be dealt with when the agreement is under discussion in the light of all the relevant facts and cannot be settled in advance." The management side has been informed that the contractors committee intends to send a deputation to the Minister of Health in order to pursue, with him, the vital point of principle which it considers is involved. Meanwhile, arrangements are being made for the committee's consulting accountants to meet the Ministry to discuss details of the proposed inquiry forms.

CONTAINER ALLOWANCE

The collation of the results of the February and June inquiries is proceeding. Appropriate adjustments are being made to reflect the recent increases in bottle and box prices. The Committee is seeking evidence on the frequency of prescribing of those B.N.F. tablets, etc., which, from November 1, are required to be supplied in air-tight containers, so that account can be taken of that new factor in the calculation.

PRICING

Further consideration was given to the recently reported cases of gross under and overpayments resulting from very bad sorting. The Committee is convinced that there is only one answer to the problem—the introduction of full pricing as soon as possible. When the deputation calls on the Minister of Health, the need for a return to full pricing will be the subject of representations.

REVISED DISPENSING FEE SCALE

The Committee considered proposals from the Ministry for a revised scale of dispensing fees but could not accept them. Accordingly counter proposals have been sent to the Ministry and are at present under consideration. Among the committee's aims is the elimination of the anomalies in the existing fee scale. The matter will, of course, be referred to Pharmaceutical Committees before any final decisions are taken.

BRITISH NATIONAL FORMULARY

Proposals for additions to the Drug Tariff to cover new B.N.F. items were discussed; the Committee was unable to agree a number of the basic quantities suggested by the Ministry and alternative proposals have been put forward by the Committee.

PRESSURISED SPRAY PACKS

Acting on a Ministry of Health instruction, the bureaux started in mid-July to "disallow" prescriptions ordering preparations in pressurised spray packs (e.g. Hydrocortisyl spray, Nobe-cutane, etc.). As soon as that became known, the Committee's officers made representations to the Ministry. As a result, the instruction was withdrawn in August. Payment is now being made to the chemist without question for any pressurised spray pack of a drug supplied on EC10. The bureaux have been told that any previously "disallowed" scripts for those preparations which are resubmitted for pricing must be passed for payment.

COMMITTEE ON PRESCRIBING COSTS

Before settling the terms of the evidence to be submitted to the Hinchliffe Committee, the Central Committee is intending to have discussions with the Pharmaceutical Standing Committee (Scotland).

STANDARDS, 1956-57

Sales exceed a million copies

THE number of standards and codes of practice published by the British Standards Institution during the year 1956-57 was 287, being just above the 1953-54 record and for the first time the sales of British Standards exceeded a million copies. Those facts are given in the 270-p. annual report of the British Standards Institution for 1956-57, published recently (price, 7s. 6d.).

It is "regretted" that relatively few manufacturers have so far applied for permission to use the B.S.I. certification mark on their electric blankets. Only six succeeded in qualifying by the end of the year.

The chemical division published thirty-five new, and thirty-seven revised standards during the year. Seventy-one draft standards were circulated for comment and fourteen items of new work were started. Separate specifications have been prepared for chemicals used in portable closets (apart from aircraft) and in aircraft closets of the re-circulation and portable types. A test method for the determination of phenols is being discussed with the British Disinfectant Manufacturers' Association, but it has been agreed not to delay publication of the closet chemicals specifications because of that. The committee which prepared B.S.2462, "Black and White Disinfectant Fluids," has decided not to amend or amplify the specification so far as it affects containers for fluids with special reference to labelling with the date of month.

In the section of the report dealing with international activities it is noted there is good hope that international

agreement may be reached in a comparatively short time on a limited number of test sieve apertures. The essential oils committee met in September 1956 in Oporto, where documents giving general guidance on the packaging and labelling of essential oils were

provided and several methods of test for essential oils finalised. Further methods and the subject of sampling are still being considered. A draft specification for oil of eucalyptus globulus was studied and preliminary consideration given to a draft specification for

oil of sassafras. It is reported that a notable feature of the meeting was the desire of certain countries to apply the newer analytical techniques, such as the use of ultra-violet light absorption, to the assessment of essential oils.

A FACTORY SOLELY FOR CATALYSTS

Increasing production at Clitheroe, Lancs, should aid exports

THE Billingham Division of Imperial Chemical Industries, Ltd., has just completed extensions to its factory at Clitheroe, Lancs, making it not only the most up-to-date factory in the world for catalyst production but, the company believes, the only one of its kind designed and operated solely for that purpose.

I.C.I.'s own requirements for catalysts have increased rapidly in the past ten years. By 1954 it was realised that those demands would soon overtake the maximum capacity of the existing factory, and it was decided largely to rebuild Clitheroe factory, modernising all sections and doubling its capacity.

The present extensions will cater for internal future requirements and also enable I.C.I. to offer catalysts for sale on a world-wide basis. Catalyst markets are mainly overseas, usually associated with fertiliser ammonia production, the oil industry and petroleum chemicals plants and the largest single market is U.S.A. Backed by continually increasing experience in the commercial use of catalysts, the company anticipate an expanding export business in that field.

Operates Night and Day

The present factory, operating round the clock seven days a week, consists essentially of three process buildings, together with stores, services and amenity buildings. The process sections are:— Pasting section for wet processing, oven section for drying, decomposition, calcination, etc., and pelleting section for dry processing.

Most of the equipment items are general purpose units enabling several catalysts to be made at any one time. About twenty different "standard" catalysts are made in production campaigns lasting from a few weeks to several months and forward production planning is essential in order to achieve maximum production efficiency.

The product list includes catalysts suitable for the following widely used processes: Steam-hydrocarbon reforming, carbon monoxide removal (shift reaction), methanation (removal of CO traces), sulphur removal, hydrogenation, dehydrogenation, hydrocarbon oxidation, etc.

In the pasting section stock solutions of the raw materials are prepared. Preset volumes of those solutions are then passed to precipitation vessels at controlled rates and temperatures and after a set period of time suspended precipitates are pumped to pressure filters, where they are subsequently washed at controlled rates and temperatures for predetermined periods. All the operations can be preset and then controlled either automatically or

by hand from one of two control panels.

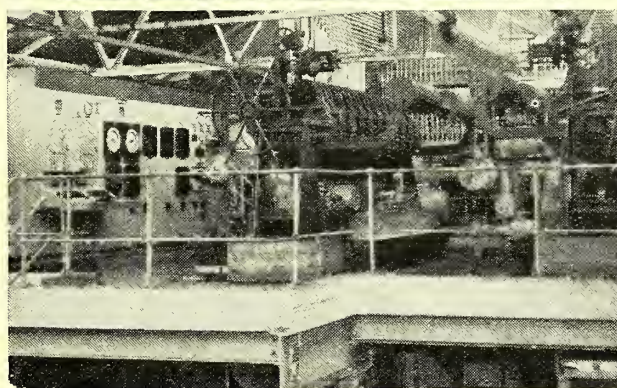
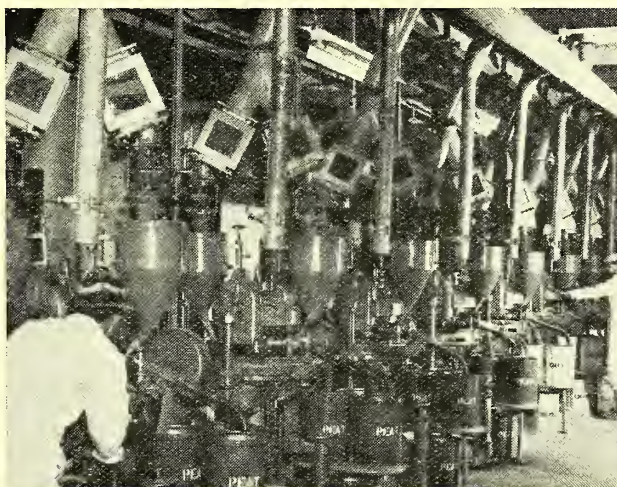
A number of tray drying ovens have been retained in the oven section whilst three new continuous band drying ovens and one special purpose continuous calcining oven have been installed. Washed filter cakes can be dropped either to trays or to one of the bands for drying or drying-decomposition as necessary, the dried or decomposed product being moved to pelleting section in standard skips. The pelleting section is housed in a four-story building in which gravity flow of materials is used wherever possible. Travelling weigh hoppers are extensively used and enable maximum flexibility to be achieved between hoppers and various items of mechanical equipment. A wide variety of equipment is available in this section, the catalysts being compressed into many shapes and sizes although the majority of products are either solid cylindrical pellets or near spherical granules.

Cylindrical pellets are made on high speed rotary machines, most of which

are capable of producing up to 80,000 small pellets per hour; a quarter of a million pellets per hour can be achieved with some of the machines. High speed pelleting is essential since in commercial use a charge of catalyst can contain over 100 million pellets but pellet strength is equally important to give a long catalyst life, and high pelleting pressures are employed.

Iron oxide is a major constituent of some catalysts but is also extremely detrimental to many other metal oxide catalysts and the pelleting section is therefore laid out to process iron-bearing and iron-free catalysts in separate compartments to avoid contamination from dusts. Catalysts are expensive products with values in some cases over £1 per lb. and mechanical losses must be reduced to a minimum at all stages of manufacture, even if the dusts, etc., are not hazardous.

The Clitheroe factory has a fully-equipped control laboratory, also operating seven days per week, in which routine chemical and physical tests are performed on raw materials, intermediates and finished products. Research on more efficient methods of production and on preparation of new catalysts is the responsibility of a section of Billingham Division research department where fundamental problems of catalysis are also being studied by a group. In the near future a pilot manufacturing unit is to be established at Clitheroe, which will be particularly useful in the scaling up of catalyst preparations from a bench scale to full commercial production. The Clitheroe unit will also be available for the production of customers' special requirements, involving small quantities of catalyst, or for the production of small tonnages of any particular catalyst which would be uneconomic on the new units.



Top: Machines used for pelleting catalysts. Below: Section of filtration plant.

LEGAL REPORT

A Qualification Not Accepted

At Kingston-on-Thames, Surrey, county magistrates' court on September 27, Regal Pharmacy, Ltd., Station Approach, Kingston, pleaded guilty to three summonses for selling otherwise than by or under the supervision of a registered pharmacist drugs containing poison, namely salt of codeine in Veganin tablets; a derivative of barbituric acid contained in Amytal tablets; and an antihistaminic substance, chlorcyclizine, contained in Histanlin tablets. Prosecuting for the Pharmaceutical Society, Mr. A. C. Castle said an inspector who made inquiries and visited the company's shop at Malden Road, New Malden, Surrey, found a woman pharmacist in full charge, but her qualification had been obtained in the Irish Republic. There was no question but that she was qualified, but her qualification was not accepted in Britain. There was no doubt that the lady was a very capable person and the bench might think that there was little or no public danger—that the case was a storm in a teacup and need not have been brought. But Britain was fortunate in having the highest standard of qualification in the world as far as chemists were concerned. The Pharmaceutical Society had been worried for a long time about people with Republic of Ireland qualifications being placed in charge of chemists' shops in this country. The law did not allow it. He did not suggest there was necessarily anything wrong with the Eire qualification, although he believed it was not so good as the British qualification, but the point was that some qualifications in other parts of the world were not nearly as good as those in Britain and the Pharmaceutical Society was concerned with the number of foreigners coming here and, having had experience of their lesser qualifications, decided they must administer the Act very strictly. There was a second point, even more important.

Holiday Season Difficulties

The fundamental basis of the case was to impress upon the owners of chemists' businesses that they must insist upon the best control; that they could not rely upon people who came from another part of the world where a lesser qualification than the British was accepted and who might not be familiar with the pharmaceutical requirements of this country. The Council of the Society wanted to avoid such a situation as had occurred abroad of drugs, subject to a doctor's prescription only, being sold over the counter like cough drops. For the defence it was stated that the company had four shops. Chief person in the company was Mrs. Illesley, a widow, who was not a pharmacist. She took over the business when her husband died and she had endeavoured at all times to have pharmacists in charge of her shops. It was, however, very difficult to get them, particularly in the holiday season. When Mrs. Illesley engaged the lady locum, following the lady's advertisement and an interview, it was assumed that she was qualified to act. It appeared, however, that both Mrs. Illesley and the lady were under

a misapprehension. The lady had in fact, worked in Britain for some three years, in positions of responsibility in chemists' shops. She knew about poisons and drugs as well as many people who were legally fully qualified. It might be said that the company should have checked up on her qualifications, but one had to take some things on trust.

In regard to the standard of qualification set in the Irish Republic, he maintained that Irish laws and tradition in such matters followed very much those of Britain. Mr. Castle said that in January the defendant company was fined at Chertsey on three similar summonses. For the defence it was stated that those cases resulted from a manager walking out. The magistrates imposed a fine of £3 on each summons and the company was also ordered to pay £5 5s. costs.

COMPANY NEWS

Last year's figures in parentheses

T. & H. SMITH, LTD.—Mr. E. P. Hudson has resigned from the board because of pressure of his other business commitments. (Mr. Hudson joined the board in 1947 and was recently appointed managing director of Scottish Agricultural Industries.) He is succeeded by Mr. E. H. M. Clutterbuck, O.B.E. (a director of Scottish Brewers, Ltd. and William Younger & Co., Ltd.).

THOMAS HEDLEY & CO., LTD.—Profits from operations in the year ended June 30 are £1,869,000 (£1,358,000) less U.K. tax, £917,000 (£614,000) leaving £952,000 all of which, except £1,000, is being distributed in dividends. That has been done deliberately, says the chairman, "to make up to the shareholders for a very inadequate return since 1930." Undistributed profit remaining in the business is nearly £5 millions, accumulated mainly since the war.

BEECHAM GROUP, LTD.—At the annual meeting on September 25 the chairman (Lord Dovercourt) mentioned that the annual meeting next year would be at the end of July. Three dividends on the ordinary shares would be paid annually (first and second interims and final). He also said it was intended to issue an interim statement of the trading results and the first such statement would be issued in December. In a review of current trading the chairman states that the profits for the current half-year "must inevitably exceed those of the second half of 1956-57."

F. W. BERK & CO., LTD.—The company has signed a conditional contract to acquire the whole of the share capitals of Leda Chemicals, Ltd., and Lea Valley Chemicals, Ltd. The Leda Chemicals shares will be acquired in exchange for 360,000 Berk Ordinary shares of 5s. each plus a cash payment of £4,500, while the Lea Valley Chemicals will be acquired in exchange for 40,000 similar shares plus a cash payment of £500. The chairman (Mr. A. D. Berk) in a letter to Ordinary shareholders, points out that Leda Chemicals, Ltd., and Lea Valley Chemicals, Ltd., are privately owned companies operating in a field complementary to that being developed by their

own company at Sandridge. Since the acquisition of the Sandridge premises expansion there has been satisfactory, with the result that lack of space was being felt; Messrs. Leda's factory should provide additional facilities for that purpose. The directors consider that the amounts to be paid for the acquisition of the two companies are commensurate with the value of the assets. The net asset value as shown in the audited accounts as at May 18, was £72,342, but the directors are of the opinion that the value of the assets to the group is at least £127,000 and they are confident that the proposed investments will prove advantageous to the development of the group and will provide satisfactory earnings. The present managements of the two companies have agreed to continue to serve those companies.

New Companies

P.C.=Private Company; R.O.=Registered Office

LAXTON (KENDAL PARADE), LTD. (P.C.)—Capital £3,500. To carry on the business of chemists and druggists, etc. Directors: Wm. M. Laxton, M.P.S., Lucy Laxton and William J. F. Laxton, F.P.S. (directors, Laxton (Edmonton), Ltd., etc.). R.O.: 406 Bank Chambers, 397 High Holborn, London, W.C.1.

R. BERRY (CHEMIST), LTD. (P.C.)—Capital £1,000. To acquire the business of pharmaceutical and general chemist carried on by Ronald Berry, M.P.S., at Radcliffe, etc. Subscribers: Allan Woodhead, M.P.S., 30 Yorkshire Road, Prestwich, and Ronald Berry. The first directors are not named. R.O.: 35 Stand Lane, Radcliffe, Manchester.

ANAESTHETIC EQUIPMENT, LTD. (P.C.)—Capital £100. To carry on the business of designers and manufacturers of and dealers in anaesthetic and medical apparatus, etc. Directors: Wilfred Jones and George Wellesley (directors, Cyprane, Ltd.). R.O.: National Provincial Bank Chambers, Scott Street, Keighley.

R. WHITTLE (CHEMISTS), LTD. (P.C.)—Capital £9,000. To acquire the business of pharmaceutical chemist carried on by H. R. Ferriday and Constance Whittle, at 50 Market Street, Hednesford, Staffs, etc. Directors: Philip Matkin, M.P.S., Constance Whittle, Elisabeth S. Loveday and Edward J. H. Loveday.

JNO. JONES (PHOTOGRAPHIC CHEMISTS), LTD. (P.C.)—Capital £1,000. To carry on the business of wholesale and retail chemists and druggists and dealers in photographic apparatus, etc. Directors: Reginald O. Jones, M.P.S., Phyllis M. Jones and Peter C. Jones. R.O.: 102 Cross Lane, Salford, 5.

BUSINESS CHANGES

G. T. FULFORD CO., LTD. (of Canada) has moved to Cornwall Road, Hatch End, Middlesex (telephone: Hatch End 4050 (unchanged)).

Appointment

THE chemicals division of Newton Chambers & Co., Ltd., have appointed Mr. George Marling their representative in the West London area.

ORTHO PHARMACEUTICAL, LTD., have appointed Mr. Ian Farmer their medical representative for N.W., N. and W.C. districts of London. Mr. Derek Brown, for the past two years their representative for East Lancs and South Yorks, has been appointed representative for Yorkshire.

OVERSEAS VISIT

MR. C. W. MAPLETHORPE (a member of the Pharmaceutical Society's Council, managing director, Allen & Hanburys, Ltd., and president, Allen & Hanburys Co. of Canada) left Southampton on September 26 for a short visit to the United States and Canada.

PERSONALITIES

MR. H. W. MARTIN, F.P.S., A.R.I.C., has obtained the degree of LL.B. of London University. Mr. Martin is employed in the research division of Allen & Hanburys, Ltd.

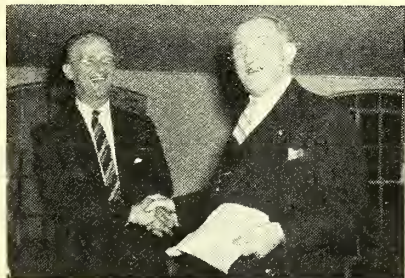
MR. C. HARKER, M.P.S., manager of the Raleigh Street Pharmacy of Plymouth Co-operative Society, Ltd., has retired after thirty-seven years with the Society and twenty-five years as manager of the central pharmacy. On behalf of the fellow managers he was presented, by Mr. A. G. Mervyn Madge, M.P.S. (superintendent pharmacist) with a set of gold cuff-links, and on behalf of the staff of the central pharmacy with a silver tankard.

MR. MORGAN F. BRODERICK, M.P.S.I., who is a candidate in the election for the Council of the



Pharmaceutical Society of Ireland (see C. & D., September 28, p. 345), was educated at Presentation Brothers College, Cork, and served his apprenticeship with his father, with whom he is

now engaged in business. For the past three years he has been on the committee of the Cork Chemists' Association. He has a knowledge of pharmacy in many European countries, having attended a number of international pharmacy students' conferences.



GOODBYE TO ALL THAT: Mr. Harry Lunn who, since the end of the 1939-45 war has been the "clicker" responsible for the setting and assembly of type for **THE CHEMIST AND DRUGGIST**, receives a farewell presentation from colleagues at The Haycock Press, Ltd., on his retirement. The occasion was a dinner given recently in his honour.

MARRIAGES

MORLEY-BRADFORD.—At the Methodist Church, Banbridge, co. Down, on September 26, James E. Morley, M.P.S.N.I., Ballymenoch, Hollywood, to Edith Bradford, S.R.N., 43 Bridge Street, Banbridge.

TAYLOR-STRACHAN.—At Croft-foot Parish Church, Glasgow, on September 21, James Taylor, B.Sc., M.P.S., Bedford, Commonhead, Airdrie, to Helen Anne Strachan, B.Sc., M.P.S., 112 Menock Road, Glasgow, S.4.

Diamond Wedding

HAGUE-WESTCOTT.—At Queen Street Baptist Church, Peterborough, on September 30, 1897, John Hague to Beatrice Fanny Westcott. Present address: 29 St. Catherine's Lincoln. Mr. Hague retired from business at the age of seventy-eight, in 1949 after spending a total of sixty-four years in the profession.

He became an active worker in pharmaceutical and civic affairs and in 1923 was elected mayor of Lincoln, a position which his daughter, Councillor Mrs. Murfin, now holds. His pharmaceutical appointments included that of chairman of the National Pharmaceutical Union.



DEATHS

HENDERSON.—On September 17, Mr. James Henderson, M.P.S., 175 Francis Road, Leyton, London, E.10, aged sixty-two.

ROME.—On September 2, Mr. Henry Flockhart Rome, M.P.S., Fairview, Stone Street, Sevenoaks, Kent, aged seventy-five. From 1911 to 1920 Mr. Rome was in Southern Rhodesia with Lennon, Ltd., Salisbury. He joined the staff of Timothy Whites & Taylors, Ltd., in 1926 and remained with the company until 1947.

STACEY.—On September 12, Mr. Arthur Stacey, M.P.S., 111 Oakdale Road, Nottingham, aged thirty.

TATLOW.—On September 11, Mr. Sidney Tatlow, M.P.S., 52 Market Street, Eckington, Derbys. Mr. Tatlow qualified in 1932.

THOMAS.—On September 12, Miss Jane Wynne Thomas, M.P.S., 4 Claverley Grove, Finchley, London, N.3, aged sixty-seven.

TIZARD.—At his home, Trelawny, Church Road, Dundonald, Belfast, on September 25, Mr. John Kenneth Tizard, B.Sc., M.P.S.N.I. A native of Crawley, Sussex, Mr. Tizard qualified as a chemist and druggist in Great Britain in 1937, and became a member of the Pharmaceutical Society of Northern Ireland in 1947. During the 1939-45 war he served in the R.A.M.C. with the 24th London General Hospital and was stationed for a period at Campbell College, Belfast. Later he was attached to the

51st Highland Division in charge of a field ambulance unit. He was wounded in the battle for Caen, and mentioned in dispatches for gallantry in the Rhine crossing. After the war Mr. Tizard graduated with an honours science degree from Queen's University and joined the staff of Campbell College, as science master. He is survived by his widow and one son.

TURNER.—At sea, off Auckland, New Zealand, suddenly, on September 30, Mr. Thomas William Davids Turner, aged seventy-nine. Mr. Turner was chairman, since 1923, of the Mentholatum Co., Ltd. He was on a business trip to New Zealand. A keen golfer, he was a former president and captain of the London Chemists' Golfing Society, of which he had been a member since 1921. He had played golf on more than 350 courses in different countries of the world. He played twice in the British Open Golf championship (at St. Andrews in 1930 and at Hoylake in 1932).



WHIGHAM.—On September 15, Miss Elizabeth Stewart Whigham, M.P.S., 6 Mansfield Road, Clarkston, Glasgow, aged forty-nine.

INQUESTS

Shock After Wasp Sting.—A verdict of "death by misadventure" was recorded at an inquest at Guildford, Surrey, recently, on Mrs. M. J. Grover, Farncombe, Surrey, who died from shock after being stung by a wasp. The sting had penetrated a superficial vein in Mrs. Grover's arm. She was stated to be specially sensitive to wasp stings. "It is a very rare occurrence: I have seen only two others in approximately twenty-five years," stated a medical witness. Mr. Frank Grover said that his wife had twice before been stung by wasps and each time had had a fainting turn.

"Open" Verdict.—At an inquest at Wigan, Lancs, on September 19, on Mrs. M. I. Hutchinson, Pooltown Road, Ellesmere Port, who died a few hours after admission to Wigan infirmary, the coroner recorded an open verdict. A pathologist said that Mrs. Hutchinson had died from aspirin poisoning after taking a large number of tablets. She had a great fear, said the doctor, and a bad heart, and those elements had played a part in her death. Her sister (Mrs. R. M. Grundy), said that Mrs. Hutchinson came to visit her in Wigan. She looked ill, nervous and distraught. On the morning of her death her sister told her: "I have taken some aspirins. If I am asleep in the morning don't wake me. They think I am of unsound mind and they are going to certify me." Mrs. Grundy tried to reason with her, and sent for a doctor. He ordered her to hospital. When the ambulance came, said Mrs. Grundy, her sister was "petrified."

TRADE NOTES

New Economy Size.—Beecham Pharmaceuticals, Ltd., St. Helens, Lancs, have introduced a new economy size of their vitaminised Iron Jelloids.

Size Switch.—Continental Laboratories, Ltd., 101 Great Russell Street, London, W.C.1, have introduced a new 250-size of their Taxol tablets. The 500-pack has been discontinued and is no longer available.

Change of Source.—The manufacture and distribution of Suthers composition essence has been taken over by James Woolley Sons & Co., Ltd., Victoria Bridge, Manchester, 3. Stocks are readily available.

Profit Margin Unaltered.—Genatosan, Ltd., Loughborough, Leics, have reduced the price of a number of their dermatological products (see p. 394) but the value of the retail chemist's margin is unaltered.

Now from New Works.—Lederle Laboratories Division, Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2, announce that all products ordered from them are now dispatched from the company's new factory at Gosport, Hants.

Ring Comb in Festive Pack.—Newey Bros., Ltd., Brearley Street, Summer Lane, Birmingham, 19, are supplying in a festive, holly-decked package their ring comb, which is made in three sizes: small, medium and large, in black, crystal, tortoiseshell and amber. The small size is also available in red, green, blue, yellow and pink.

Sole U.K. Agents.—Carlton Laboratories (Southern), Ltd., 2 Norfolk Square, Brighton, Sussex, have been appointed sole selling agents in the United Kingdom for the original Carlsbad Sprudelsalt, which is about to be advertised in Britain. Stocks of Carlsbad Sprudelsalt are available from wholesalers, or direct, from mid-October.

Introductory Offer.—To introduce Skin Deep hand cream (see C. & D., August 10, p. 147) it is being offered for a limited period by J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W.1, in a special "plus" pack (tube of Skin Deep beauty cream, plain or tinted, at usual price of 3s. 3d., plus a testing sample tube of Skin Deep hand cream). [Corrected note.]

"Perfect" Christmas Gift.—The Pifco hair dryer, which is among a number of items (electric shaver, electric blanket, massager, hair clippers, etc.) that are being featured by Pifco, Ltd., Watling Street, Manchester, in their "biggest-ever" advertising and sales-promotion scheme, is being recommended as the "perfect" Christmas gift.

Natural Angle Razor.—The paragraph referring to the Ever-Ready natural angle razor (Ever Ready Razor Products, Ltd.) (C. & D., September 28, p. 356) should have read: "With the Ever-Ready natural angle razor, the weight is correct and the balance is correct and its flat top design means that the razor head automatically lies flat against the face at the perfect shaving angle of 15° so that there is

less wear on the blade cutting edge with the result that the blades last longer."

Treatment of Asthma.—A new preparation for the prophylaxis and treatment of asthma, Englate, is being marketed by A. & G. Nicholas, Ltd., Slough, Bucks. The product combines theophylline sodium with glycine, which acts as a buffer against gastric hydrochloric acid, thus enabling the theophylline to be used in adequate dosage without causing nausea or vomiting. Englate is available in packs of 50 and 500 tablets or 8-fl. oz. bottle of syrup, the latter presentation being specially recommended for children up to twelve years.

Product Changes.—Merck Sharp & Dohme, Ltd., Hoddesdon, Herts, have introduced a 500 x 0.5 gm. pack of Benemid (probenecid) tablets. When present stocks of Penbenemid (penicillin with Benemid) (100,000 units strength) tablets are exhausted they are being replaced by Penbenemid-250 (250,000 units penicillin in each tablet). The change is expected to take place

on October 14. All orders for Penbenemid tablets thereafter are being met with the larger-strength tablets. Penbenemid suspension (each teaspoonful equivalent to 100,000 units) is unchanged.

Samples for Mothers.—Chemists are reminded that Trufood, Ltd., 113 Newington Causeway, London, S.E.1, provide special sampling cards for their Follow-on Trufood for issue to mothers. The reply-paid postcards carry space for the names and addresses of the retailer and two mothers. On receipt of the completed card a sample tin is sent by the company to each mother with a letter stating that it is sent at the request of the chemist who is named. A copy of the booklet "From Spoonfeeding to Family Meals," which contains recipes based on the foods, is also sent.

Discontinued.—Lederle Laboratories Division, Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2, announce that Achromycin Spersoids, 36-gm. and 75-gm.; and Aureomycin Spersoids, 36-gm. and 75-gm., were deleted from their catalogue on October 1.

NEW PRODUCTS AND PACKS

Shampoo in "Handy" Sachet.—A new "handy" sachet of Halo liquid shampoo is now being marketed by Colgate-Palmolive, Ltd., 145 Charing Cross Road, London, W.C.2. A colourful 3-doz. display carton ties up with commercial television advertising.

Antiseptic Lozenges.—Savlon antiseptic lozenges are now available from Imperial Chemical Industries, Ltd., pharmaceutical division, Fulshaw Hall, Wilmslow, Ches. The lozenges contain chlorhexidine and benzocaine in a pleasantly flavoured lozenge base. The product, which is C.F., is packed in tube of twelve. Bonus terms are available until November 30.

New Perfumes.—Lancome (England), Ltd., 14 Grosvenor Street, London, W.1, are marketing a new perfume, Envol, which is available in three presentations: "Edition de grand luxe" (hand-made coffret and crystal bottle); "presentation de luxe" (standard de luxe pack); and "Envol fantasy amphora" (smooth frosted glass bottle and gilt screw-on top). Envol is also being supplied in the gold and white series and in eau d'Envol. The company are also marketing a new version of their Fleches perfume, Fleches d'Or. It is being made available in three presentations: "Edition de grand luxe"; "presentation de luxe"; and "miniature original."

Electric Warming Pad.—The Plansel electric warming pad manufactured by Creators, Ltd., Sheerwater, Woking, Surrey, has been designed for maximum safety and simplicity, and is claimed excellent for relief of pain in rheumatism, lumbago, neuritis, sciatica, etc. The element is helically wound and covered with a woven asbestos sheath matrixed within polyurethane foam and enveloped within a decorative polyvinyl-chloride leathercloth case. The pad is supplied in a variety of attractive colours and measures 18 x

12½ in. It is for a.c./d.c. current, 200/250 volts, and carries a guarantee against faulty workmanship or material for two years from date of purchase.

Gastro-intestinal Treatment.—Lloyd-Hamol, Ltd., 11 Waterloo Place, London, S.W.1, are now marketing the biological preparation, Enpac, for the treatment of gastro-intestinal disorders.



Enpac, which was developed by the biological division, Aplin & Barrett, Ltd., milk products manufacturers, Yeovil, Somerset, and results from original British research, is a preparation of viable *Lactobacillus acidophilus* in a vehicle of growth factors necessary for the establishment and multiplication of the strains in the human gut. Since many gastro-intestinal disorders are understood to be due to the oral administration of broad-spectrum antibiotics, the lactobacilli have been rendered resistant to the eight main antibiotics in present-day use. Enpac is presented as a powder packed in hermetically sealed tins each containing 60 gm. It is administered orally mixed with warm milk or water.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Let's be Wholehearted

SIR,—In view of the boost in sales, and presumably prestige, which "bangers" experienced as a result of a comedian's catchline, "sausages are the boys," may I suggest that pharmacists jump wholeheartedly on to the commercial whirligig, paying the latest in 40-18-36 to warble "pharmacists are the fellows!"

COMMERCIAL CONSCIOUS

Dispensing Tolerances

SIR,—On the above subject, I wonder if C. A. Pickford, Grantham (see *C. & D.*, September 28, p. 345) is just being facetious? Surely the person who sets out to make 1 oz. of pig. tincture or 2 oz. of applic. dicophan, has "lost all contact with common sense"? The introduction of fractions into various preparations is typical of the intelligentsia(?) who are trying to run things.

Workshop

SAM. B. RYAN

Women Pharmacists in Liverpool

SIR,—May I, through the medium of *THE CHEMIST AND DRUGGIST*, bring to the notice of women pharmacists residing within reach of Liverpool the existence of a very active Merseyside Branch of the National Association of Women Pharmacists. Meetings are held in the Y.W.C.A. lounge, 18 Slater Street, Liverpool, at 7.45 p.m. on the first Friday of each month from October to May, inclusive, refreshments being served at 7.15 p.m. The programme for the coming session has been arranged to include lectures, talks and films of a varied scientific, cultural and entertaining nature. The first meeting, to be held on October 4, is "President's night," a social gathering at which the president, officers and committee will be most happy to meet and welcome any women pharmacists who are interested in joining the branch.

MURIEL DALGARNO,
Assistant Secretary

West Kirby

A Question of Ethics

SIR,—As a prodigal pharmacist who has taken locum duty in many types of practice in this and other countries, I count many doctors as personal friends. In Australia it is quite usual to find a pharmacist who sublets consulting rooms to doctors, dentists, opticians, hearing-aid specialists, etc. That situation holds, too, I believe, in the United States. Why does the Pharmaceutical Society of Great Britain discourage that type of co-operative practice? Most doctors appreciate the co-operation of a professional pharmacist and are immediately impressed by any attempt to improve personal relationships. It is helpful to all parties concerned. I can imagine the cries of "collusion," "unfair competition," "touting for business," etc., with which any suggestion of such co-operation will be met in some chemist circles. But just let's face facts. Such contacts are maintained by many who manufacture. Their specially trained represen-

tatives call on doctors and hospitals, sit on Ministry of Health committees, and so on. Why should the private pharmacist be restricted by so-called "ethical conduct" limitations from making his own personal and professional contacts in his own area? I should welcome the views of other pharmacists.

CHALLENGER

Awkward Customers

SIR,—Every practising pharmacist has some "awkward clients" to deal with—from the old neurotics who never have the correct amount of mag. carb. in the bottom of their bottle of medicine to those others whose pulv. glycerh. co. is the wrong colour or whose tablets are of a different size, etc., from what they had before. They can usually be placated. It is the "Saturday afternoon specials" that get me down—the N.H.S. prescription that has been taken from pharmacy to pharmacy by

someone who cannot get a particular proprietary product. A recent example was a script a little girl brought in. It had two items—one a child's cough linctus, and the other a proprietary cream of uncertain make. No size, no strength, no maker's name. A long search through various price lists produced no clue. 'Phoning several chemists brought no clue. I telephoned the doctor, but he, like myself, was a locum. So I provided the cough linctus, collected 2s. and promised to obtain the proprietary cream per post "perhaps, on Monday." An hour later an irate father demanded his prescription back—with "I'll report you for this." He demands his 2s. back and accuses me of gross inefficiency and of breaking my N.H.S. contract. Should I (as others had done) have turned the customer away, or is one "to be pilloried for trying to obtain these unknown products" as a matter of service?

FRUSTRATED

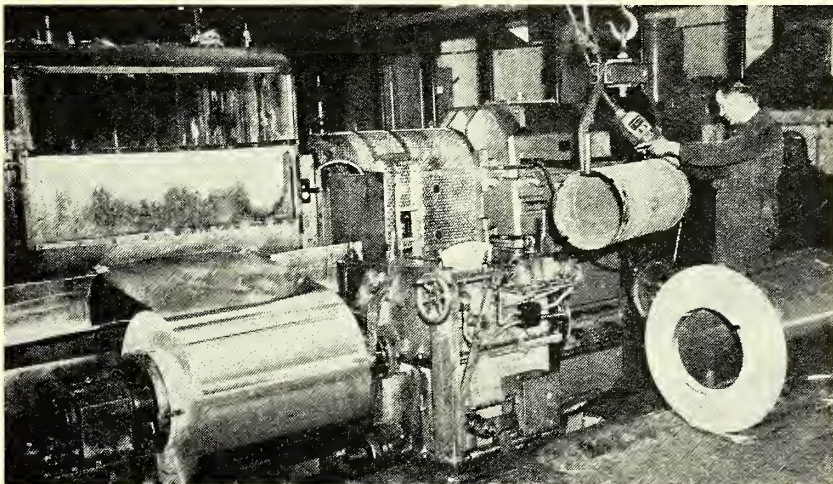
MANUFACTURERS' ACTIVITIES

M.P. Visits Factory.—Sir Eric Errington, M.P. for Aldershot, learned of the large export business of Thomas Christy & Co., Ltd., North Lane, Aldershot, when he visited their Aldershot factory recently. The firm, founded in 1860 by the grandfather of the present managing director, Mr. C. B. Christy, did not move to Aldershot until 1941, when the London premises were bombed. It at present employs 120.

At European Exhibition.—At the Exhibition of Scientific Instruments, which is being held at Utrecht, October 2-9, Voss Instruments, Ltd., High Street, Maldon, Essex, are showing several industrial stirrers as well as their well-known laboratory units. The industrial units include a 1 h.p. stirrer with vortex propeller and a

$\frac{1}{2}$ h.p. unit with a clamp fitting and three-blade propeller stirrer. The exhibits are being staged by the company's agents for Holland.

New Foil Mills.—New foil rolling mills of Venesta, Ltd., Queen Street Place, London, E.C.4, were officially set in motion at the Silvertown, London, works of the company by Sir Thomas Williamson (secretary, National Union of General and Municipal Workers and immediate past-president of the Trades Union Congress) on September 20. Sir Thomas said that Messrs. Venesta had combined production efficiency with first-class industrial relations. One-third of all aluminium foil exported from Britain is understood to come from the Silvertown factory. The combined output of the four mills is about 3,500 lb. of foil per hour.



NEW FOIL MILLS: Time taken to load and off-load coils is greatly reduced by a feature in the four new foil rolling mills which were officially set in motion at the Silvertown, London, works of Venesta, Ltd., Queen Street Place, London, E.C.4, on September 20 (see above). At the input side of the mills a coil loading system enables the mill to function while another coil is placed in position for the change over.



An aerial view of the laboratories shows well their setting in the landscape. In sequence from the left are the animal house; pharmacology, pathology and parasitology laboratories; chemical laboratory with administrative offices and library off to right at rear; and micro-organism laboratories and animal house. Centrally placed among them are the central wash-up and laboratory stores. The architect was Mr. H. M. Fairhurst.

NEW HOME FOR I.C.I. DRUG RESEARCH

Ten years' planning takes shape in £1 million laboratories

ITS previous quarters at Blackley, Manchester, now required for Dyestuffs Division expansion, the pharmaceutical research organisation of Imperial Chemical Industries, Ltd., has installed itself in a magnificent new home at Alderley Park, Cheshire. Officially opened by Lord Waverley on October 1, the establishment comprises a group of buildings planned and con-

structed with the utmost care and forethought for a particular research purpose, making it "second to none" among the world's pharmaceutical laboratories in the claim of the Division's chairman (Mr. E. D. Carey).

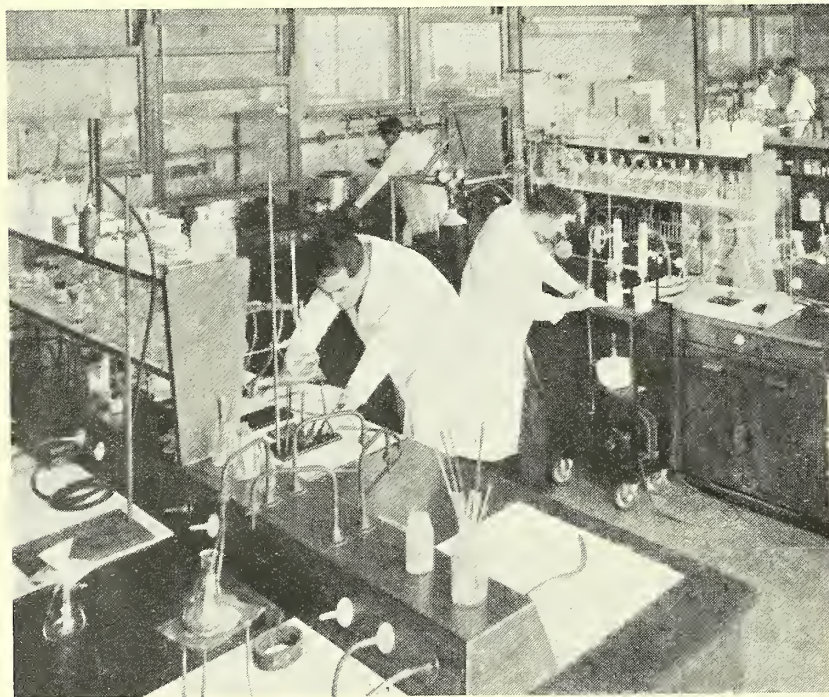
That purpose is—leaving to others the study of natural products—to synthesise new organic chemical compounds offering prospect of yielding

drugs for the treatment of diseases in man and domestic animals. The setting is a 350-acre park formerly the home of Lord Stanley. Of that area the laboratories occupy but a relatively small part, the remainder being given over largely to the grazing of farm animals. Actual floor area is 343,000 sq. ft. Cost of the project has been well over £1 million, and into the design, layout and equipment of the laboratories have gone ten years of planning, including study of the best models in Europe and the United States.

The result is impressive, not principally in size, for the complement of university graduate staff of 100 persons (half of them chemists, the remainder biologists, bacteriologists and pharmacologists; pharmacists not mentioned) is no greater than at Blackley, but for its abundant and skilfully placed facilities; for the architectural distinction of its buildings; and for the beauty of its surroundings.

In one respect the establishment is, indeed, unique. In its biological work it will be using each year mice and rats up to target figures of 350,000 and 150,000 respectively, and those animals—the "test tubes" of biological research—are to be disease-free. Hitherto the disease-free animal, obtained by Caesarean section before the normal pathogens of the species have had a chance to invade the young animal, and screened from contamination thereafter, has been little more than a laboratory curiosity. At Alderley Edge the bold and ambitious intention is to make it the standard test animal. At first the scheme is limited to mice and rats; later it will be extended to rabbits, cats—all test animals, in fact, except monkeys.

The animals are bred in a unit situated in a ten-acre glade remote from the other buildings. Intruders such as



The standard synthetic chemistry laboratory accommodates four senior scientists, with their satellite technicians. Each chemist has an island bench and his own generous fume cupboard. In the department in a twelvemonth something of the order of 3,500 new organic compounds are created. Should two prove worthy of development as medicinal agents the Division is probably well satisfied.

rabbits are excluded by a continuous fence broken only by a system of double gates. Everything that enters or leaves the three-story building passes through a routine of decontamination or sterilisation, so that disease is kept out. Staff pass from changing and decontamination rooms through a disinfectant trough, above which the air is irradiated with ultra-violet light. Insects are killed by sprayings with insecticide. The entry of equipment and issue of animals is through autoclaves (a door at each end, neither capable of opening if the other is already open).

The animal breeding rooms are windowless and air-conditioned. The air is changed ten times an hour, and the animals live in cages with open wire mesh bottoms above glass that can be automatically flushed with water. Drinking water is supplied automatically (to avoid manhandling over 45 tons of water and glass bottles a week). Pasteurised, vitamin-supplemented food goes to the breeding rooms via steel tubes; and to the experimental houses through the autoclaves.

With the animals thus provided, the laboratories' biologists are called upon to do two things: to reproduce diseases on which remedial agents may be tested, and to develop techniques for measuring on the animals the effects of compounds synthesised by the Division's chemists.

The biological laboratories are arranged in suites. Two outer rooms, one the mirror image of the other, flank a central core devoted to study space and a "utility area." All the laboratory furniture is movable at will. In the infectious diseases laboratories the bench surfaces are of stainless steel. Electricity, gas, vacuum, compressed air, water and drainage services are on tap at 5-ft. intervals along the dividing walls or through optionally removable service pedestals in the centre of the

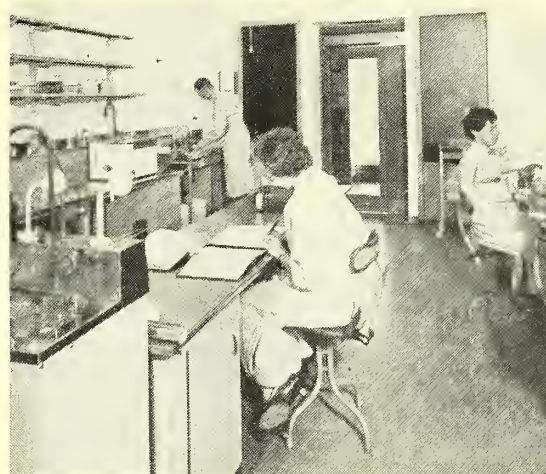
floor. On some walls are outlets for cylinder gases, the cylinders themselves being housed and connected outside in the corridors.

The "utility areas" include, in the infectious diseases laboratories, sterile cubicles equipped with bacteriologically filtered air, ultra-violet light, and sometimes filtered exit air. In other places they are devoted to photographic dark rooms, electrostatically screened rooms, etc. Windows are double, the outer one capable of being opened for cleaning, the inner permanently closed, and between them heating coils and remotely controlled venetian blinds.

In the experimental animal houses, part of the main block of buildings, the animals are kept disease-free by a system of precautions and disciplines, including vermin-proof barriers, verandahs wire-screened against the entry of birds, clothes-changing routines for staff, and the use of colour codes. Each room opens only on to an exterior verandah (there are no corridors) and all are separately ventilated, so that no infection can pass from one to another. The colour of an area denotes the disease. Inside it all movable equipment is similarly coloured and the operators wear coloured overalls. Never must, say, a yellow pail be taken into a green room.

On the first floor, red and blue areas are used for diseases dangerous to man. The infected animals live in cages in specially ventilated cupboards, and manipulations are carried out under glass-fronted hoods, the operator usually wearing "built-in" gloves. A high rate of change is achieved with bacteriologically filtered air (under positive pressure away from the operator). Two rooms are adapted for studies on snails and mosquitoes.

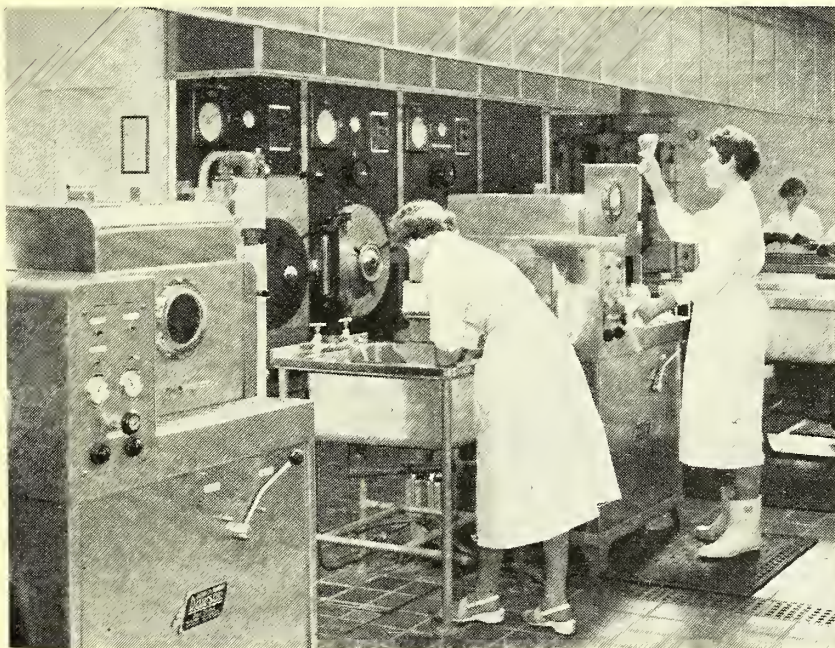
The chemical laboratories, mainly concerned, as already stated, with the synthesis of organic compounds, are



The biological laboratories are in suites of two rooms for bench work separated by study and "utility" rooms. Equipment and furniture is freely movable, with service taps in dividing wall and (for optional use) from floor pedestal unit. The picture shows a laboratory in a bacteriological suite. Tables and service units there have stainless steel tops.



Animal rooms have no intercommunication, each opening only on to a verandah. From the verandah birds are excluded by a wire screen and rodent vermin by a metal barrier they cannot scale.



A central wash-up room handles all biological and some chemical laboratory glassware. Infected apparatus is autoclaved on its way in. After washing it is wrapped, oven-sterilised and stored for reuse.

modelled on those at Blackley, with the refinements of special accommodation for studies needing a high degree of instrumentation or involving high-pressures, toxic gases, or radioactive isotopes. In a microanalysis room elementary analysis involving 10,000 determinations is carried out on about 4,000 compounds annually, and in a "large-scale synthesis" laboratory promising compounds can be produced in quantities up to 50 lb. at a time.

Washing-up and media making are centralised. The unit receives used laboratory glassware for sterilisation (bacterially contaminated apparatus enters the department through autoclaves) washing, re-sterilisation, storage and re-issue. The unit aims to have in store at the close of each day's work twice the average day's consumption of clean glassware, and in that way to cater for all but the most abnormal demands. The "kitchen" produces the media on which bacteria are grown.

FIGURES IN THE PHARMACEUTICAL WORLD

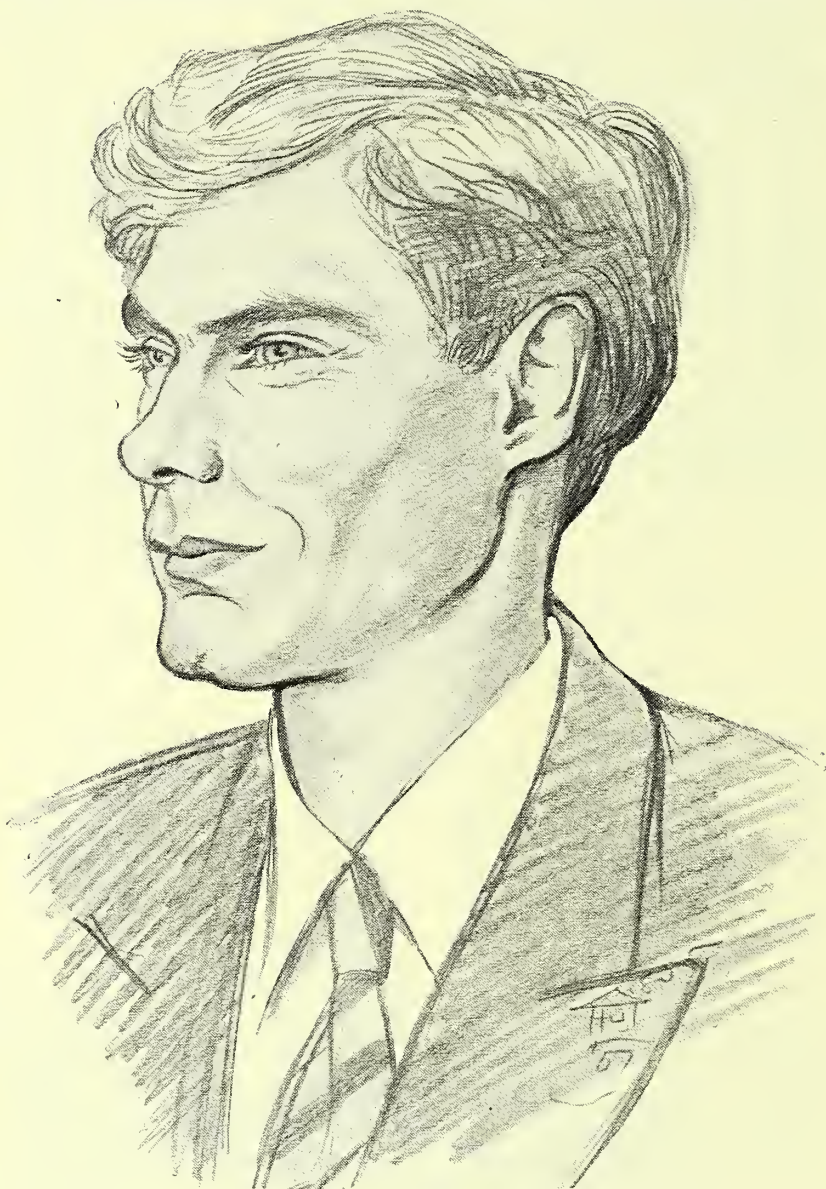
SOME achieve greatness, others have greatness thrust upon them. Mr. D. S. S. Elliot, B.Pharm., M.P.S., Clapham Junction, London, S.W.11, has some claim to the limelight on both counts.

The fortuitous circumstance is that Mr. Elliot is the 2,500th active member of the Chemists' Sickness and Provident Society. That achievement was celebrated at a dinner in London on September 24, at which Mr. Elliot was one of three guests of honour, the other two being the most senior male member of the Society, Mr. A. F. Collyer, Welling, Kent, and the senior lady member, Miss O. Brooke, York (both of whom were enrolled on October 23, 1928). The recruitment of Mr. Elliot as the 2,500th active member serves to emphasise the twofold function of the Society. He is a "fine husky specimen who shouldn't give the Society much trouble" on the sickness side, to quote the Society's chairman, Mr. G. T. M. David. But on the provident side he stands to benefit most substantially. In sickness, of whatever kind (no discrimination is made against accidental injuries) a member who has taken out ten shares receives £5 per week for as long (up to six months) as he is unable to resume work. At the end of each year the balance of the Society's income remaining after sickness claims and management expenses have been met is credited to members in proportion to their shareholdings. Membership ceases at age sixty-five and at that juncture the whole of a member's share of the accumulated funds is returned to him. That can be quite large. At the celebration dinner Mr. C. W. Hobson, Sheffield, a former chairman of the Society and a member for twenty-five years, told of a £700 cheque received on his sixty-fifth birthday.

That is, of course, well in the future for Mr. Elliot, who in 1954 gained his B.Pharm., M.P.S. after four years at the School of Pharmacy, University of London, and is therefore only on the threshold of his career. No doubt his foresight in joining the Society was partly prompted by the advice of his father, a pharmacist himself, with whom the son served his post-graduate apprenticeship and in whose pharmacy at Northcote Road, S.W.11, he is now employed.

Mr. D. S. S. Elliot's personal claim to achievement is that, from taking up rowing in his schooldays at Emmanuel School, Wandsworth Common, he went on not only to row for the University of London Boat Club, of whose crew he was a member for four years, but also to win the University "purple" in rowing and to become, in a post-graduate year at the University, captain of the Club. He has rowed against crews in Amsterdam, Brussels and Paris in international races under the Brussels Treaty powers, and has been for two years a member of the Thames Rowing Club, during which time he has taken part in Olympic and European games rowing trials.

More may be heard of him in that



54. MR. D. S. S. ELLIOT

sphere. In his professional career he has, in joining the C.S. and P.S., certainly taken as wise a step as any newly qualified pharmacist can take. Though managed from the headquarters of the National Pharmaceutical Union the Society is, of course, open to any pharmacist practising his profession,

whether proprietor or employee and whether on the retail, hospital or manufacturing side—and even to some who, in the strict sense, are not so practising. In addition, membership is open to non-pharmacists provided that they are employed whole-time in some branch of the drug trade.

FESTIVE OCCASIONS

Reception opens winter session at Hull

MORE than a hundred guests attended a reception given by Hull Chemists' Association and Hull Branch of the Pharmaceutical Society, to mark the opening of the winter session of meetings. The guests were received by Mr. Frank W. Abba (president) and Mrs. Abba. During the evening, the prize awarded by the Council of the Pharmaceutical Society to the best student in the inter-

mediate pharmacy course at Hull College of Technology was presented to Miss J. P. Prince, while the Hull Chemists' Association prize was handed to Miss P. Gant. Among the guests were Mr. J. Dack (past-president), Mr. J. J. Small (vice-president), Mr. J. E. Hindle (vice-president), Mr. C. A. Hewitt (treasurer) and Mr. E. A. Brocklehurst. Mr. G. A. Merkin proposed a vote of thanks.



The order of the day...

'LANOXIN' *for maintenance therapy*

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It is taken each day, not intermittently.

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'LANOXIN' BRAND *for*
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PREDNISONE

METICORTEN*

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and introduced*

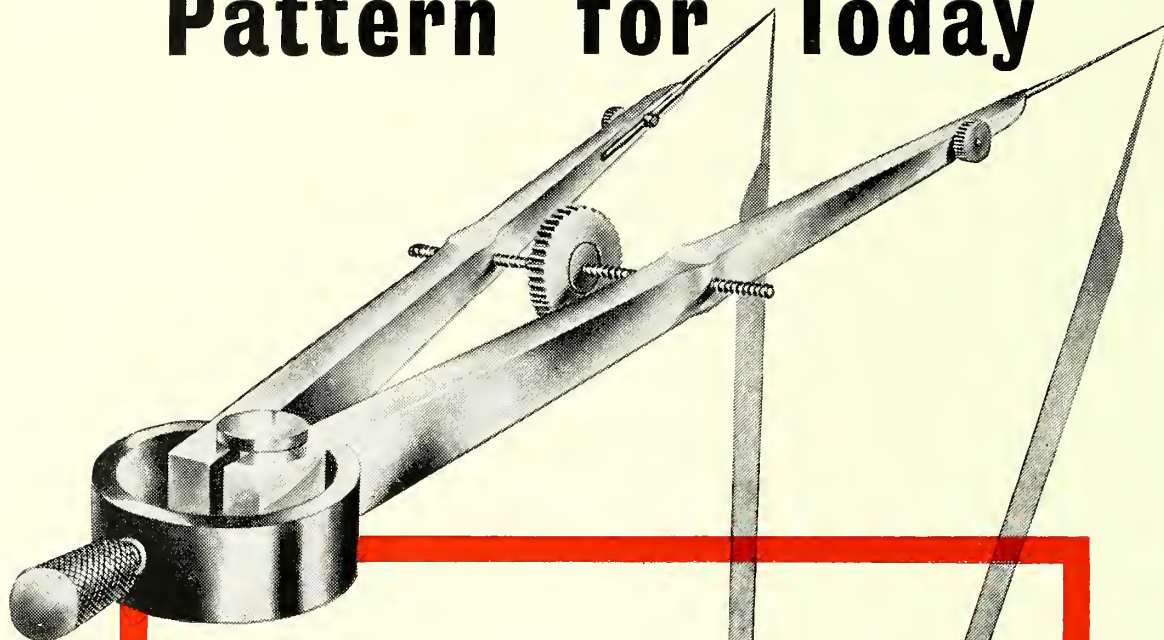
- November 4, 1954—** Announcement of first clinical trials anywhere with Prednisone and Prednisolone¹
- January 21, 1955—** First editorial commentary on Prednisone and Prednisolone to appear in any journal²
- January 22, 1955—** First published clinical report on Prednisone and Prednisolone in any professional journal³
- February 4, 1955—** First published pharmacologic data on Prednisone and Prednisolone in any scientific journal⁴
- February 23, 1955—** Schering Corporation first in the world to introduce Prednisone for general medical use
- May 27, 1955—** Schering Corporation first in the world to introduce Prednisolone for general medical use
- May 31 and June 1, 1955—** First International Conference on the Clinical and Metabolic Effects of METICORTEN (Prednisone) and METICORTELONE (Prednisolone) held in New York⁵
- September 8, 1955—** First patent on Prednisone and Prednisolone issued in any country⁶

*developed
by* **SCHERING
CORPORATION**
Bloomfield, N.J. **U.S.A.**

**The newer corticoids Prednisone and Prednisolone
are the result of these Schering Corporation laboratory and
clinical research developments, and the first 187 clinical papers
published throughout the world were supported
by Schering Corporation and employed only METICORTEN
(prednisone) and METICORTEONE (prednisolone).**

1. First Scientific Interim Session of the American Rheumatism Association, Bethesda, Maryland, U. S. A.; H. Waine, BULLETIN ON RHEUMATIC DISEASES, 5:81, 1955.
 2. J. L. Hollander, PHILADELPHIA MEDICINE, 50:671, 673, 1955.
 3. J. J. Bunim, M. M. Pechet and A. J. Bollet, JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION, 157:311-318, 1955.
 4. H. L. Herzog, A. Nobile, S. Tolksdorf, W. Charney, E. B. Hershberg, P. L. Perlman, and M. M. Pechet, SCIENCE, 121:176, 1955.
 5. Sponsored by Clinical Research Division, Schering Corporation, U. S. A.
 6. Dom. Republic Patent No. 617, Sept. 8, 1955, first patent on Prednisone and/or Prednisolone issued in any country, and first of many Schering Corporation patents on the new steroids since issued throughout the world.
- *METICORTEN and METICORTEONE are the registered trade marks of Schering Corporation U. S. A.

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'Pulvules' 125mg. and 250mg.

Suspension Paediatric 62.5mg. per 5cc.

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Tablets and Suspension Penicillin-V-Sulpha Lilly.

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

'Flu and the Pharmacist

PHARMACISTS in some areas have found themselves plunged into the thick of a "flu week." The Ministry of Health gave official recognition to its serious character by announcing on September 30 a belated distribution of a vaccine that had been ready from one manufacturer since August (see *C. & D.*, August 17, p. 165). A second company authorised an announcement that it, too, had produced an influenza vaccine (p. 369). Pharmacists had already discovered, by much hard dispensing of permutations of aspirin, phenacetin, Dover's powder and other time-honoured remedies (which, even in this tablet era, doctors seem to prescribe in powder form) that Asian or some other form of influenza was here. In Radcliffe, Lancs, the Press found the "flu queue" as newsworthy a shot for their photographers as had been the early war-time queues for oranges or bananas. Comments on the two-hour wait for prescriptions must have brought many an under-breath "don't shoot the pianist he's doing his best" from local chemists. In Geneva the World Health Organisation announced that isolated strains of the Asian virus were of little use, so far, as a vaccine against the current epidemic (p. 370). What was aimed at, they stated, was the limitation of the effects of the outbreak by preventing high death rates. In England, however, 121 deaths from influenza were announced in the week ended September 21, against forty-seven the previous week. In general, if an overall picture can be obtained from the piecemeal figures which appear in the Press, the outbreak appears to have been confined to children, outbreaks among the adult population having occurred in only a few districts. It seems fairly certain that the disease has not reached, and, it is hoped, may not reach, the virulence of the influenza epidemic of 1918. Nevertheless pharmacists may, like the doctors, have to consider local and temporary increases of their hours of service.

Overseas Trade in August

THE slowing down of industrial activity during the summer holiday period is normally seen in a lower level of overseas trade in August and September. In recent years rather more of that seasonal effect has been concentrated into September, and the overseas trade figures for August this year, showing only a small decline compared with the earlier part of 1957, probably mark a continuation of that pattern. Imports, at £335.7 millions, and exports, at £269.4 millions, were each

about 4 per cent. below the average level for the first seven months of the year.

So far as drugs and medicinal preparations were concerned the value of exports during August was the smallest for any month since January. Almost all items for which statistics are available in that category (see table given below) shared in the decline. As expected, shipments to India fell (to £179,979 from the record level of over £400,000 in the previous month). Australia was the largest purchaser of medicines and drugs, the value of shipments being £266,094 or about the same as in July. Exports of similar goods to the United States at £52,112 were particularly disappointing by any comparison. Similarly the value shipped to date during the year is trailing behind that for the same period of 1957 (£574,118 against £718,622). Canada's purchases, at £56,962, were also well behind those for August of last year. Canada's Prime Minister has suggested that 15 per cent. of his country's imports from the United States should be diverted to Britain and it has been suggested in some quarters that Britain has not sufficient exportable goods to achieve that object. Here is a chance to step up drug exports, for the United States at present dominates the import market with a contribution of 85 per cent. against Britain's under 10 per cent.

EXPORTS		VALUE
Drugs, medicines, medicinal preparations (total)		£ 2,951,931
Vitamins		211,953
Penicillin salts		121,715
Penicillin injections		32,233
Penicillin tablets, ointments, etc.		67,581
Antibiotics other than penicillin		472,509
Quinine and its salts		10,754
Alkaloids, excluding quinine		85,320
Aspirin		98,765
Antihistamines		48,735
Antipaludics		75,996
Barbiturates		37,038
Liver extracts		11,455
Ointments and liniments		91,289
Insulin		20,524
Sulphonamides		75,122
Proprietary medicines		763,601
Other medicines, unclassified		700,516
Glycerin		66,295
Acetone		33,039
Citric acid		33,517
Salicylates		12,726
Perfumery and toilet preparations		
Lipstick, face powder, etc.		241,133
Dentifrices		148,126
Toilet soaps		247,460
Synthetic detergents		522,698
IMPORTS		£
Vitamins		45,649
Antibiotics		55,658
Alkaloids		46,535
Proprietary medicines		71,795
Unclassified medicines		265,525
Borax, refined		102,023
Iodine		11,824
Menthol		5,824
Essential Oils		
Bergamot		7,553
Citronella		29,887
Clove		15,276
Geranium		25,471
Lavender		44,213
Lemon		42,629
Orange		6,390
Peppermint		68,033
Unclassified		138,119

Onward from Galen

A CURRENT CAUSERIE

IN a recent issue of the French pharmaceutical weekly *Le Moniteur des Pharmacies et des Laboratoires*, R. H. Monceaux tells of a Geneva pharmacist, M. Colladon, who established before 1829 one of the essential facts on which the geneticist Mendel based his celebrated theories. Mr. Monceaux was himself quoting a communication by Jean Rostand to the *Académie des Sciences*, in which the author revealed that to Colladon should go the credit for observing the persistence of a racial character through several successive generations when white mice were crossed with grey. Monceaux considers it probable that that finding was known to Mendel, and that it may have inspired him to embark on his own experiments on hybridisation. "Let us not forget," he writes, "that Mendel was a monk, and his ecclesiastical superiors may not have looked with an approving eye on his animal experiments and their sexual aspects." That, perhaps, was why he turned back on the peas in his garden and conducted on them the experiments on cross fertilisation.

TRAINING THE POST-GRADUATE APPRENTICE



"I'm out for a minute. Just take in scripts, serve at the toilet counter, weigh any babies, answer the 'phone, see any travellers and give first aid for wasp stings."

FIFTY YEARS AGO TRAINING OF THE PHARMACIST

From the C. & D., October 5, 1907

PROFESSOR Raphael Meldola, F.R.S., ex-president of the Chemical Society, was then called on to deliver the inaugural sessional address. He said . . . The first point that has struck me on considering the course of study arranged for our pharmaceutical students is the magnitude of the subjects as compared with the time allowed for their acquisition. I learn that during the three years of apprenticeship which precede the actual course of study there is, generally speaking, no serious attempt made to acquire a grounding in the principles of those sciences upon which pharmacy is based. Indeed, in many parts of the country the local conditions are such that the apprentice, however zealous, could not find the necessary facilities for receiving preliminary scientific instruction. The practical result of this state of affairs is that, unless during the period of apprenticeship an opportunity is given for attending some elementary science classes, the whole burden of scientific training is thrown upon the staff of this School of Pharmacy, or of those other establishments which profess to cater for the pharmaceutical student. . . . However competent the professors, and however keen the students, it is obviously impossible that in the course of eight or nine months—bearing in mind that you start more or less unprepared by previous training—any great mastery can be gained over the sciences of chemistry and physics, botany, pharmacy, and materia medica. . . .

TWO QUESTIONS:

1. Is the programme of study organised so as to utilise the time allowed to the best possible advantage?
2. How does the training of the British pharmacist compare with that of his continental brethren?

With respect to the first question, I find, on looking through the schedule of the School of Pharmacy, that there is nothing of the nature of a curriculum or organised co-ordination between the various courses. Each professor appears to carry out his course of instruction independently of his colleagues, and in educational institutions where this custom prevails there is bound to be a loss of time through unnecessary repetition and overlap of subjects. In other words, to insure the best results in a given time from a staff of teachers professing different subjects, there should be a definite and systematised coherence between the respective courses. This, I venture to think, is a point worthy of consideration by the Council. Then there is another matter which I told you I was going to be rash enough to bring forward, and I do so with considerable hesitation, in view of my complaint that the one-session programme is already very crowded. But it has always appeared to me somewhat of an anomaly that physiology should find no place in the curriculum of the pharmacist. This question has probably been raised before, and the suggestion may not find favour with the authorities. Nevertheless, I will venture to state the case for what it is worth. The pharmacist, in order to meet the requirements of the medical profession, is trained in those branches of science which bring him into contact with medical science, just in the same way that the doctor is trained in subjects such as chemistry, materia medica, etc., which enable him to issue his instructions—written prescriptions—scientifically. If it is the primary duty of the doctor to know most intimately the working of that machine, the human organism, which is committed to his care, is it not desirable that the pharmacist should also have at least some rudimentary knowledge of the physiological processes for which the doctor orders him to supply remedies? The studies which are considered essential for your qualification are based upon the principle that you should have scientific knowledge of the materials with which you deal—that you should know something of chemistry, because you dispense chemical products; that you should know something of botany, including vegetable physiology, because your materials are for the most part of vegetable origin, and so forth. It is certainly remarkable, in face of this principle, that some knowledge of the mode of action of the remedies which, under medical direction, you are called upon to dispense should be considered beyond the scope of modern pharmaceutical education.

PROFESSIONAL STAND-IN

An ex-proprietor turns to permanent locum work

A YOUNG doctor was said recently to have found temporary work in the Post Office at Christmas time more profitable than a house appointment in a hospital. Without going to the length of going outside their own profession pharmacists who are not quite satisfied with the fruits of their activities in one section of it might find it worth while to transfer to a different section, as I did.

After some years as a proprietor under both National Health Insurance and National Health Service, difficulties of one kind and another made me face unpleasant facts and drove me to take stock of my position. Restrictions and responsibilities flourished side by side. Difficulties with staff and stock seriously interfered with freedom in business (and the enjoyment of leisure out of it). Salaries of assistants were expanding, while net returns from the N.H.S. contract were shrinking. During one or two lean years I found that excessive payments for the services of locums seriously depleted the profits for the holiday period, even without taking account of my own vacational expenses.

After a candid review I began to question whether the net income revealed by my accountant at the end of my trading year was an adequate return for all my sacrificed leisure, close attention to business, and hard and exacting work while in the shop, to say nothing of interest on the not inconsiderable capital invested in the business. Being middle aged, and of a somewhat roving disposition, I finally decided to get out of it while it was possible to do so and so I gave up proprietorship and took to the road, though not as representative.

The preliminary inquiries I made from wholesale friends led me to believe that I should have no difficulty in securing locum appointments. That opinion has been fully endorsed by my own experience. Practically all my principal dates are booked up for well over twelve months ahead.

After a little locum experience I became more selective in my engagements and my working life now runs smoothly and easily. I concentrate on single businesses under private proprietorship situated within a hundred miles or so of my own home. I do not look on this work as being merely a succession of disconnected jobs, but have tried to run a one-man agency, providing for my clients certain necessary business services. I think I have succeeded. I do not consider myself just a manager; I take the governor's place, I am his "stand-in" during his absence. I carry out his duties as far as they fall to me, though I do not have to share his worries. I have no financial responsibility, as I had when I was myself a proprietor; I leave several weeks free throughout the year for my own leisure; and I do not now have to pay someone else to do my work while I am on holiday.

A First Look Round

Most of my jobs are well within reasonable travelling distance of my home. Before taking on a new engagement I try to go and see the proprietor and I gain from my visit as much information as I can about his particular business methods. For instance, it is most useful to know something about storage and stock and ordering for replacements, special arrangements with local doctors, relations with neighbouring pharmacists, poison records, visits of D.D.A. and Pharmaceutical Society inspectors, or test prescription agents. Rota duties as a rule are not expected from a locum, the proprietor generally choosing a free time to take his holiday or exchanging with a friendly neighbour.

This preliminary visit also gives one a fair idea of the class of business and the arrangement of the shop. I am willing to undertake any kind of pharmaceutical work during my term of service but I am not prepared to do spring cleaning. I like my workshop to be clean and tidy and

properly fitted, and as I am in a position to pick and choose I have come across a few shops in which, after inspection, I decided I could not work.

Easier Under N.H.S.

I consider that the National Health Service has made it a comparatively easy matter for a locum to move about from shop to shop and find himself at home in different businesses—particularly if he chooses businesses of a similar type. As a rule, under present conditions in the family business of a medium-sized town, the proprietor, because of his N.H.S. contract, has had to devote most of his time to the dispensing of prescriptions. He generally has a reliable assistant, often a woman, at the selling counter and that assistant continues to do this work while the proprietor is on holiday. So in that type of business the locum spends most of his time at the dispensing counter.

Again because of N.H.S., about half the prescriptions dispensed are for proprietary preparations, and, as these are often supplied in original packages, they are the same in whatever shop one works. All that has to be learned initially, when one enters upon a new job, is the particular method adopted for storing stock. Many prescriptions for non-proprietary products are for ready-made preparations involving tablets to count, bulk powders to weigh, ointments to box or liquids to fill into containers. Extemporaneous mixtures are at a minimum, and orders for pills to be made are non-existent. So the work of dispensing prescriptions (practically all of them EC10's) is very much a matter of routine in all shops, and the locum is only infrequently called from the dispensary—although, of course, he is responsible for all sales that require qualified supervision.

After some experience of locum work one is able to devise various time-savers. For instance, I find that a fair number of pharmacists either buy ready-made or make for themselves the more frequently prescribed formulary mixtures, etc., in bulk quantities. Some chemists make them fresh on each occasion, but a glance through the prescriptions for the previous few weeks or an inquiry put to the proprietor himself will indicate which formulary mixtures are most in demand, and it saves time to make up, say, six at a time, either in individual bottles in the case of a mixture containing heavy powders such as mist. mag. trisilicat. co., or in a winchester for simple mixtures such as mist. gent. alk. Those keep well for a week, but it must always be remembered that the Formulary directs fresh preparation for some items.

I visit quite a large number of shops in the course of a year and, with my own memories of the days in which N.H.I. operated, I am continually being reminded of the change that has come over the character of dispensing work. Quite half the prescription demands in many shops can now be satisfied by handing out a manufacturer's original carton or bottle, or counting out a varying number of tablets. Drastic changes during recent years have also been made in educational requirements but sometimes, when I review my day's work, I am led to wonder why the pharmacy student is required to assimilate all the mass of advanced scientific knowledge the syllabus includes.

During the morning of a recent early-closing day thirty-one prescription forms were presented for dispensing. They represented forty-seven prescription items, of which thirty-four were orders for proprietary preparations in one form or another. Included in the prescriptions were nineteen tablets and capsules (seven non-proprietary), six extemporaneous mixtures, four mixed ointments, four simple liquids (paraff. liq., olive oil), two proprietary injections, and two appliances.

A little while ago, during a leisured afternoon, I examined a batch of 200 consecutive prescriptions. They were written on 115 forms by eighteen doctors (five doctors issued rather more than half of them), sixty-one forms bore one prescription each, twenty-one bore three, four or five prescriptions each. In all, 103 proprietary preparations were ordered. Included in the batch were seventy-seven tablets and capsules, twenty-seven mixtures and lotions, fifteen appliances and six linctuses, three extemporaneous ointments, three extemporaneous eye drops, three vapores, one pill (proprietary), and one sterile powder. Among them was only one form marked "Urgent." There were no trusses or hosiery. The appliances ordered were simple, such as 12 yd. gauze, 1 lb. lint, 2 lb. wool, 2 doz. 3-in. bandages.

It has always seemed to me that the patient of a doctor who is given to generous prescribing does get his money's worth. One form bore orders for an inhaler, inhalant and

tablets, together priced out at 73s., for which the patient paid the odd three shillings. Another man who paid 8s. seemed to get variety as well as value for his money. He presented two forms. On the first were five items—three for eye drops and two for nose drops. On the second form were three items, each for 100 tablets. All eight items were for different proprietaries, made by eight different makers. The total value was about £3 10s.

As I have said, N.H.S. has made dispensing easy for the locum and nice work for a middle-aged man when carried on in a properly arranged dispensary. But what puzzles me is how the personal proprietor, during the next twenty years, who may want to slack off or even transfer his business, is going to attract to his shop, to do the class of work whose character I have indicated, the newly qualified Bachelor of Pharmacy who has taken a three-year course of scientific study after already passing his Entrance examination at advanced level.

HOSPITAL PHARMACY FORUM

HOSPITAL QUALITY

AT the symposium on surgical dressings held during the British Pharmaceutical Conference, reference was made to the so-called hospital-quality dressings which are at present available.

It is curious that, whereas the dressing of wounds is carried out with the greatest care in hospitals, and forms one of the most important parts of a nurse's duties, the term "hospital quality" as referred to dressings connotes an inferior quality—something cheap if not exactly nasty.

That notion may have been developed for several reasons. The dressing of wounds is, of course, quantitatively more important in war-time and many of the surgical treatments and dressings first began as war-time emergency measures. Habit dies hard, and practices developed under war-time conditions are carried over into the peace. Again hospitals are in a constant state of penury and were even more so in the days when every penny had to be collected by voluntary organisations. Any possibility of saving expense by the use of slightly off-standard material was tempting. A contribution to the discussion in Bristol also suggests that a psychological factor played a part. One sees the used dressing thrown away and burnt and that looks wasteful; so there is a tendency to go for the lowest priced material.

The danger of doing so is, of course, that there are no standards for off-standard goods! The manufacturers set their own specification and it is then up to the buyer to control quality according to his requirements. Unfortunately the purchase of surgical dressings is often in the hands of a member of the lay staff who has no technical knowledge either of the dressings themselves or of the use to which they are put.

Even when they are the responsibility of the pharmacist, dressings are not treated with the degree of care and attention which one would wish. Because there is no danger of toxicity and because they are just packets of this and that, there is a tendency to regulate their custody and issue to the storekeeper.

This is unfortunate and unwise for, in neglecting surgical dressings, the pharmacist is throwing away a part of his birthright. No other category of staff in the hospital has studied the raw materials, and standards of finished products used as dressings. The pharmacist should be the expert in the subject and should be the arbiter of quality.

Further, the pharmacist has close contact with the surgeons and the nursing staff. He is therefore able to discuss with them the available materials and help in selecting the most efficient.

The standards set in the B.P.C. for such materials as cotton wool, gauze, bandages, etc., no doubt represent the condensed wisdom of the manufacturers who are members of the standards committee. As such they are accepted and

in practice they work moderately well. It does not appear, however, that the standards set bear any necessary relationship to the requirements of wound dressings. Who, for example, has determined the relationship between the rate of exudation per cm² of burnt forearm to the absorbency per gm. of cotton wool or gauze? Who has estimated the average hourly blood loss after parturition and related it to the construction of towels?

It would be interesting to know what are the indications for the use of gauze rather than cotton wool.

Mr. Seymour, author of one of the symposium papers on dressings, drew attention to the different properties of man-made fibres as compared with cotton. It would seem that in certain cases the former are not merely substitutes for the latter, but constitute a new method of dressing wounds.

Those are matters in which the pharmacist should be interested and in which he may find a fruitful field of investigation.

RECENT RESEARCH

NEW RAUWOLFIA FACTOR

ISOLATION of a new hypotensive factor from the roots of *Rauwolfia serpentina* is reported from the laboratories of the Council of Scientific and Industrial Research, Pakistan, by Siddiqui (*Chemistry and Industry*, 1957, 2, 1270). The dialysed extract on removal of solvent yielded a semi-solid which was resolved into four alkaloidal complexes. On the basis of pharmacological studies it was reported that the serpajmaline fraction, which is free from reserpine and other weaker bases, is a much more potent hypotensive than pure reserpine and is without reserpine's sedative and central depressant action.

STERILISATION OF ANIMAL HOUSES, ETC.

A NEW technique for the sterilisation of animal houses, racking and cages, is described by Perkins and Short (*Journal of the Animal Technicians Association*, 1957, 8, 10). The technique employs a new ampholytic surface-active bactericide and apparatus for its application, which together comprise the Tego technique. The surface-active agent used was liquid Tego MHG* which is a concentrated solution of dodecyl-di (amino-ethyl)-glycine hydrochloride. The liquid was applied by means of specially designed mixing apparatus which delivered a 1 per cent. solution through a spray lance. *In vitro* tests confirmed that Tego MHG possesses powerful bactericidal properties. Animal rooms, racks, cages, food hoppers, etc., treated with hot 1 per cent Tego MHG were effectively sterilised. After treatment a thin wax-like bactericidal film remained on the surface of the articles which after six months still showed no toxicity for the animals.

* Supplied by Hough Hoseason & Co., Ltd., Chapel Street, Manchester, 19.

SHARE MOVEMENTS, July to September

A FINANCIAL CORRESPONDENT

BUSINESS and interest in the industrial department of the London Stock Exchange during the third quarter of 1957 were on a smaller scale. One of the most pronounced reactions for some considerable time took place as a result of the sudden and appreciable increase in the bank rate, but a partial recovery soon followed. Drug trade company shares made a good showing, however, because the falls recorded were not so pronounced as some evident in other sections, and a number of issues resisted the general trend by closing better.

A good feature in that respect was provided by Allen & Hanburys £1 which finished 5s. 6d. better at 56s. 3d., after having been transferred up to the new high level of 59s. 3d. Firmness was also evident for Beecham Group 5s., which closed one shilling better at 26s., making a gain of about 6s. 6d. during the past six months. Greeff Chemical Holdings 5s. gained 1s. 9d. by closing at 18s. 9d., or just under their highest level so far for the period 1956-57.

Adverse features were probably headed by Reckitt & Colman Holdings £1, which finished 5s. lower at 44s. 3d., with a regular turnover recorded. They thus almost extinguished the gain achieved during the second quarter of the year. Glaxo Laboratories 10s. closed about 5s. lower at 36s. 9d. Borax (Holdings) 5s. Deferred Ordinary were priced 8s. against holders at 23s. although they reached a new high level of 36s. 6d. about the middle of July.

NAME OF COMPANY £1 units unless otherwise stated	1956-1957		
	HIGH	LOW	LATEST
	s. d.	s. d.	s. d.
Albright & Wilson, 5s. ...	23 10½	16 7½	18 9
Allen & Hanburys ...	59 3	47 0	56 3
Do. 7% Prefd. Ord. ...	22 0	18 1½	18 9
Ashe Chemicals, 1s. ...	1 8	9	1 2½
Aspro-Nicholas, 5s. ...	19 10½	12 7½	14 1½
Beecham Group, 5s. ...	27 3	17 3	26 0
Boots Pure Drug, 5s. ...	23 7½	12 6	21 7½
Boots (Eastern) 6% Cum. Prefd. A. ...	21 9	17 0	17 0
Do. (Western) 7% Prefd. Ord. A. ...	23 0	20 0	20 0
Borax (Holdings) Defd. Ord., 5s. ...	36 6	13 1½	23 0
British Drug Houses, 5s. ...	19 3	11 9	14 6
Cussons, Sons & Co., 2s. ...	7 4½	4 7½	6 1½
Dubarry Perfumery, 1s. ...	2 1½	6	1 9
Dufay, 2s. ...	2 1½	4	1 0
Evans Medical Supplies, 5s. ...	7 10½	4 7½	6 6
Gee, Arnold M., 1s. ...	2 1½	1 8	2 0
Glaxo Laboratories, 10s. ...	43 9	17 9	36 9
Do. 8% Prefd. Ord. 10s. ...	14 6	9 9	12 3
Greeff Chemical Holdings, 5s. ...	19 3	14 6	18 9
Hampshire, F. W., 5s. ...	8 9	6 6	6 9
Howards & Sons ...	17 0	6 6	12 6
Ilford, 5s. ...	15 7½	11 0	13 0
Monsanto Chemicals, 5s. ...	22 9	12 0	16 3
Potter & Clarke, 1s. ...	1 3	6	1 0
Reckitt & Colman, Holdings ...	51 6	34 6	44 3
Sangers, 5s. ...	16 6	12 3	15 3
Savory & Moore, 5s. ...	7 6	5 7½	7 0
Southalls (Birmingham), 5s. ...	9 3	6 0	6 9
Taylors (Cash Chemists), London, 6% Cum. Prefd. ...	20 0	15 6	16 3
Do. (Cash Chemists) Trust 6% Cum. Prefd. ...	19 6	15 9	16 3
United Glass Bottle Manufacturers ...	42 6	31 6	33 9
Whites (Timothy) & Taylors, 5s. ...	18 4½	10 1½	15 6
Do. 7½% Prefd. ...	25 10½	20 9	21 6
Yardley & Co., 4s. ...	25 0	16 3	21 3
Do. A, 4s. ...	24 1½	14 6	20 6
Do. 4½% Prefd. ...	16 4½	13 9	14 0
Do. 5½% Prefd. ...	19 3	15 3	15 6

Boots Pure Drug 5s. finished 1s. 3d. lower at 21s. 7½d., although they had gained 7s. 6d. during the preceding quarter. Albright & Wilson 5s. were 2s. odd down at 18s. 9d.

In the lowest-priced share group, Dubarry Perfumery 1s. supplied an outstanding feature by closing 1s. higher at 1s. 9d. but Dufay 2s., finished about sixpence down at 1s.

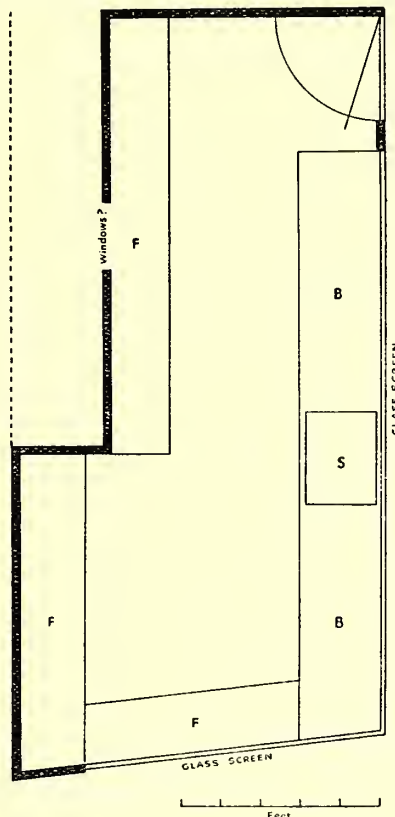
In the Preference share section, the receding trend of the second quarter of the year was continued with almost all prices moving to lower levels. Boots (Eastern) £1 6 per cent. Cumulative Preferred "A" closed nearly 2s. down at 17s.—a new low level. Elsewhere, Allen & Hanburys £1 7 per cent. Preferred Ordinary were valued 1s. 3d. lower at 18s. 9d., the loss here during the same period aggregating about 2s. Some resistance to the general trend, however, was evident for Glaxo Laboratories 10s. 8 per cent. Preferred Ordinary which were valued a shade harder at 12s. 3d.

SHOPFITTING QUERY

We are about to undertake alterations and extensions to our pharmacy, and would welcome any ideas which you may be able to put forward. We are looking for something eye-catching and up-to-the-minute. Our sketch shows the present layout.

WE enclose a layout for your dispensary. We consider it advisable to have a glass screen through which as much of

the shop as possible can be kept under surveillance. If it were not for the shop store-room being in its present position, a window on that side might have been an advantage, so that the other shop door could be kept in view. Unfortunately, you did not state whether there were any windows in the dispensary, so we have not been able to elaborate the fixtures for that side. We therefore suggest cupboards for the lower part, with shelving above. Teak is serviceable for the dispensing bench, though many are now in favour of the clean look of modern acid- and alkali-resistant laminated plastics. Outside decoration must naturally suit one's individual taste and in most cases is influenced by the amount there is to spend. The following suggestions may be of assistance. An attractive shopfront, which is at the same time dignified, may be achieved by having the architrave surround of drawn bronze metal and granite, with granite stall-risers and fascia, and the name in bronze letters with enamel-filled centres. You may, however, prefer natural wood. Teak is attractive, but needs much care and attention to keep it in perfect condition.



GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

BOCASAN

MANUFACTURER: Knox Laboratories, Ltd., 46 Hertford Street, London, W.1.

DESCRIPTION: A powder composed of sodium perborate, monohydrated, 69.72 per cent.; and sodium hydrogen tartrate, anhydrous, 29.80 per cent.

INDICATIONS: Treatment of periodontal conditions such as pyorrhœa, gingivitis, Vincent's angina, stomatitis, etc.

USE: 1 teaspoonful in 1 tablespoonful of warm water as an oral lavage three times daily after meals or as directed.

HOW SUPPLIED: In bottle of 2 oz.

FIRST ISSUED: September 3, 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

EF-CORTELAN, intravenous

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: A soluble ester of hydrocortisone for intravenous use, and for use as retention enema.

INDICATIONS: Acute adrenal failure as in severe shock due to surgical or accidental trauma, blood loss, burns or overwhelming infection; adrenal crises; ulcerative colitis (by retention enema).

DOSAGE: Usually, single-dose vial of 100 mgm. hydrocortisone. May be varied to severity of condition and patient's response.

HOW SUPPLIED: In vial containing 100 mgm. of hydrocortisone as hemisuccinate sodium with 2 c.c. of water for injection.

FIRST ISSUED: July 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

LEDERKYN

MANUFACTURER: Lederle Laboratories Division, Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2.

DESCRIPTION: Tablets, each containing 0.5 gm. 3-sulphanilamido-6-methoxy pyridazine.

INDICATIONS: All infections caused by sulphonamide-susceptible organisms, and especially urinary tract infections caused by *E. coli*, *Aerobacter aerogenes*, streptococci, etc.

DOSAGE: 1 gm. initially, followed by 0.5 gm. daily, twelve to twenty-four hours after the first dose. In some cases it may be advisable to give a single dosage of 0.5 gm. for maintenance. Treatment should be continued for five to seven days or until the patient is asymptomatic for forty-eight to seventy-two hours.

HOW SUPPLIED: In bottles of twenty-four, 100, and 500.

FIRST ISSUED: September 1, 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

NEOMIN

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: TABLETS each containing 0.5 gm. of neomycin sulphate; and ORAL LIQUID containing 0.5 gm. neomycin sulphate per fl. oz.

INDICATIONS: Antisepsis in preparation for gastro-intestinal surgery; some types of dysentery; infantile diarrhoea.

DOSAGE: *Pre-operative Bowel Preparation*: Usually 2 tablets every four hours for two or three days before surgery; alternative shorter course is 2 tablets hourly for four doses, followed by 2 tablets every four hours until surgery. Patient should be on low residue diet and a cathartic (e.g., 1 or 2 oz. castor oil) should be given before treatment. *Dysentery*: Adults, 1-2 tablets three times a day. *Infantile Diarrhoea*: Daily dose is based on 25 mgm. per lb. body weight, given in divided doses. In practice, infants and young children may be given 1-2 teaspoonfuls and older children 3-4 teaspoonfuls. Those doses are given four times a day, usually for three to five days.

HOW SUPPLIED: TABLETS: In bottle of twenty; ORAL LIQUID: In bottle of 2 fl. oz.

FIRST ISSUED: July 1, 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

PRODERMIDE

MANUFACTURER: Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Lancs.

DESCRIPTION: CREAM: An acid dermatological cream containing cod-liver oil, 5 per cent.; glycerin, 2 per cent.; aminoacetic acid, 1 per cent.; lactic acid to pH 3.5 in buffered emulsifying base. LIQUID: A detergent dermatological lotion containing ammonium lauryl sulphate, 18 per cent.; aminoacetic acid, 1 per cent.; lactic acid in buffered solution adjusted to pH 3.5. SOLID: A therapeutic cleansing agent for use when soap is irritating, containing sodium acid phosphate, 1.6 per cent.; lactic acid, 2.2 per cent.; sodium lauryl sulphate, 41.6 per cent., in a bland base.

INDICATIONS: All dermatoses characterised by high pH; eczema; atopic dermatitis; infectious eczematoid dermatitis; many forms of occupational dermatitis; seborrhœic conditions, including acne and dandruff; pruritus.

CONTRA-INDICATIONS: CREAM: In weeping conditions, a lotion being preferable.

USE: CREAM: Applied with gentle massage where that is suitable, or on a dressing, preferably following preliminary cleansing with the LIQUID. Local acidification is maintained for 4-5 hours. LIQUID: *For cleansing*, dilute with two parts of water and apply in two stages. *For non-acute dermatoses*, use a similar solution to that used for cleansing, apply with a swab and allow to dry. *For subacute, irritative, or moderately weeping conditions*, dilute with 5-10 parts of water. *In very acute cases*, with exacerbation of weeping, allow to subside before treatment. SOLID: For intermittent cleansing by the patient, used in the same way as soap.

HOW SUPPLIED: CREAM: In tube of 40 gm. (approximately).

LIQUID: In bottle of 8 oz. SOLID: In piece of 40 gm. (approximately).

FIRST ISSUED: August 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

ANTEPAR tablets

MANUFACTURER: Burroughs Wellcome & Co. (The Wellcome Foundation, Ltd.), 183 Euston Road, London, N.W.1.

DESCRIPTION: Chewing tablets, each of which is equivalent in strength to 1 fl. dr. of Antepar elixir. Each tablet contains piperazine phosphate, equivalent to 500 mgm. of piperazine, in a flavoured base.

INDICATIONS: Threadworm (oxyuriasis) and roundworm (ascariasis) infestation.

DOSAGE: *Oxyuriasis*: 50-75 mgm. of piperazine per kilo body weight daily for seven days. Maximum dose is 4 tablets a day. *Ascariasis*: A single dose of 6 tablets for children, 8 tablets for adults.

HOW SUPPLIED: In strip pack of twenty, and bottle of 250.

FIRST ISSUED: June 1957.

REFERENCES: Brown and others, *J. Amer. med. Assn.*, 1956, 161, 515.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

NEMBUDEINE FILMTABS

MANUFACTURER: Abbott Laboratories, Ltd., 3 Wadsworth Road, Perivale, Greenford, Middlesex.

DESCRIPTION: An analgesic, antipyretic sedative tablet containing codeine sulphate, B.P.C., 15 mgm.; aspirin (as aluminium salt), 210 mgm.; phenacetin, B.P., 150 mgm.; caffeine, B.P., 30 mgm.; Nembutal (pentobarbitone sodium, B.P.), 15 mgm.

INDICATIONS: Irritability and restlessness associated with acute or chronic inflammatory conditions; pre- or post-operatively for minor surgical procedures; severe headache, dysmenorrhœa and premenstrual tension; trauma, insomnia, dental extractions, neuritis and neuralgia, hang-over, myalgia, tonsillitis, sore throat; rheumatism and arthritis; sciatica and lumbago.

DOSAGE: One tablet every three or four hours.

HOW SUPPLIED: In bottles of 100 and 500.

FIRST ISSUED: August 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

CORDEX forte

MANUFACTURER: Upjohn of England, Ltd., Crawley, Sussex.

DESCRIPTION: Tablets, each containing delta-1-hydro-cortisone, 1.5 mgm. and acetylsalicylic acid, 300 mgm.

INDICATIONS: Moderate to severe musculoskeletal conditions.

DOSAGE: 1-2 tablets three to four times daily.

HOW SUPPLIED: In bottles of 100 and 500.

FIRST ISSUED: June 1957.

REFERENCES: Spies and others, *J. Amer. med. Ass.*, 1955, **159**, 645. Szucs and others, *Ohio St. med. J.*, 1956, **52**, 722.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

PLESMET

MANUFACTURER: Coates & Cooper, Ltd., Pyramid Works, West Drayton, Middlesex.

DESCRIPTION: Green, sugar-coated tablets, each containing ferrous aminoacetosulphate equivalent to 50 mgm. of ferrous iron with 1 mgm. of aneurine hydrochloride, B.P.

INDICATIONS: Iron-deficiency anæmias; anæmia of infancy and adolescence; anæmia of pregnancy; anæmia caused by gastro-intestinal dysfunction and intestinal hæmorrhage.

DOSAGE: 1-2 tablets three times a day.

HOW SUPPLIED: In packs of 100 and 1,000.

FIRST ISSUED: May 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

LORFAN

MANUFACTURER: Roche Products, Ltd., 15 Manchester Square, London, W.1.

DESCRIPTION: 5-c.c. vials, each containing per c.c., 1 mgm. levallorphan tartrate [(−)-3-hydroxy-N-allyl morphinan tartrate].

INDICATIONS: Reduction of the respiratory-depressant effect of morphine-like compounds. DOSAGE: As directed.

HOW SUPPLIED: In 5-c.c. vial. FIRST ISSUED: July 22, 1957.

REFERENCES: Fromherz and Pellmont, *Experientia* (Basle), 1952, **8**, 394. Foldes and others, *Amer. J. med. Sci.*, 1957, **233**, 153. Hamilton and Cullen, *Anesthesiology*, 1953, **14**, 550.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

TROPHENIUM*

MANUFACTURER: Duncan, Flockhart & Co., Ltd., 16 Wheatfield Road, Edinburgh, 11.

DESCRIPTION: Ampoules, each containing 250 mgm. phenacyl homatropinium chloride in 5 mls of solution.

INDICATIONS: Production of controlled hypotension during surgical procedures.

CONTRA-INDICATIONS: Chiefly (a) cardiovascular disease; (b) renal or hepatic disease; (c) low blood volume.

DOSAGE: By intravenous infusion.

HOW SUPPLIED: In boxes of six and fifty 5-ml ampoules.

NOTES: ANTIDOTES: Methyl amphetamine or methoxamine.

FIRST ISSUED: September 1957.

*Cross reference for card index:

PHENACYL HOMATROPINIUM CHLORIDE: See Trophenium.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957.

PECTOBALM

MANUFACTURER: The Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10.

DESCRIPTION: A cream containing guaiacol liq., B.P.C., 3 per cent.; eucalyptol, 2 per cent.; menthol, 1 per cent.; camphor, 4 per cent.; squalene, 10 per cent.; thymol, 0.1 per cent.; terebene, 2 per cent.; guaiacyl nicotinate, 1 per cent.; non-greasy base to 100 per cent.

INDICATIONS: Relief of symptoms in such conditions as bronchitis, laryngitis, pharyngitis and the common cold.

USE: Should be gently massaged into the skin of the chest and back, morning and evening whilst symptoms persist.

HOW SUPPLIED: In tube of 1 oz. FIRST ISSUED: August 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957

ADRESO eye drops

MANUFACTURER: Organon Laboratories, Ltd., Brettenham House, London, W.C.2.

DESCRIPTION: A sterile, aqueous suspension of cortisone acetate, 1 per cent. for instillation into the eye.

INDICATIONS: Inflammation of anterior segment of the eye to control exudation and congestion.

DOSAGE: Instil 1-2 drops every 2-4 hours.

HOW SUPPLIED: In vial of 3 c.c. with dropper.

FIRST ISSUED: September 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957

ADRYCIN eye drops

MANUFACTURER: Organon Laboratories, Ltd., Brettenham House, London, W.C.2.

DESCRIPTION: A sterile, aqueous suspension of cortisone acetate, 1 per cent., with neomycin sulphate, 0.5 per cent.

INDICATIONS: Inflammation of anterior segment of the eye due to infections known to be sensitive to neomycin.

DOSAGE: Instil 1-2 drops into the affected eye every 2-4 hours.

HOW SUPPLIED: In vial of 3 c.c. with dropper.

FIRST ISSUED: September 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957

HYDRO-ADRESO eye ointment

MANUFACTURER: Organon Laboratories, Ltd., Brettenham House, London, W.C.2.

DESCRIPTION: A sterile ophthalmic ointment containing hydrocortisone (free alcohol), 2½ per cent.

INDICATIONS: Inflammatory conditions of the anterior segment of the eye to control exudation and congestion.

DOSAGE: A little ointment should be applied to the margin of the eyelids three or four times a day.

HOW SUPPLIED: In tube of 3 gm. FIRST ISSUED: September 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957

HYDRO-ADRYCIN eye ointment

MANUFACTURER: Organon Laboratories, Ltd., Brettenham House, London, W.C.2.

DESCRIPTION: A sterile ophthalmic ointment containing hydrocortisone (free alcohol), 2½ per cent., with neomycin sulphate, 0.5 per cent.

INDICATIONS: Inflammation of the anterior segment of the eye due to infections known to be sensitive to neomycin.

DOSAGE: A little ointment should be applied to the margin of the eyelids three to four times a day.

HOW SUPPLIED: In tube of 3 gm. FIRST ISSUED: September 1957.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, October 5, 1957

DURABOLIN

MANUFACTURER: Organon Laboratories, Ltd., Brettenham House, London, W.C.2.

DESCRIPTION: Ampoules containing 19-nor-androstenolone phenyl propionate, 25 mgm. in oil solution.

INDICATIONS: Inoperable, mammary carcinoma, senile osteoporosis, loss of weight.

DOSAGE: 25 mgm. intramuscularly, once weekly.

HOW SUPPLIED: In box of 3 x 1-c.c. ampoules.

FIRST ISSUED: September 1957.

NEW BOOK

Calendar of the Pharmaceutical Society of Great Britain, 1957-58.

Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1. 8½ x 5½ in. Pp. 308. 20s. (postage one shilling).

THE book is an easy and complete reference to the officers, administration and activities of the Pharmaceutical Society. Regulations for examinations are set out and scholarships and awards are listed. A section is devoted to the various statutes and regulations affecting pharmacy.

NOTES ON NEW MEDICAMENTS

Comments on items given in *Guide to New Medicaments* (pp. 386 and 387), especially to show their relationship — pharmacological or chemical — with other products or compounds.

EF-CORTELAN INTRAVENOUS. — Chemistry:

Hydrocortisone sodium hemisuccinate. The earlier Ef-Cortelan intravenous contained 100 mgm. of hydrocortisone base dissolved in 20 c.c. of 50 per cent. alcohol. That product required considerable dilution with saline before it could be given by slow intravenous injection. The newer product can be dissolved when required, and given in a small volume. The injection may be completed in one minute. A similar preparation of the hemisuccinate is Hydrocortistab. Intravenous Cortef and Hydrocortisyl are alcoholic solutions of hydrocortisone base.

ANTEPAR TABLETS.—Piperazine, an old drug once used for gout and rheumatism, was introduced as an anthelmintic following the discovery that certain of its complex derivatives, used in tropical medicine, caused the expulsion of intestinal worms. The original Antepar preparation contained piperazine hydrate, subsequently modified to the citrate. Antepar tablets contain the phosphate in a flavoured, chewable base. Similar products include Entacyl tablets (piperazine adipate), Veroxil elixir (piperazine tartrate), and Helmezine elixir (piperazine citrate).

CORDEX FORTE. Greater therapeutic response can often be obtained with a mixture of prednisolone and acetylsalicylic acid than with either constituent alone. The combination permits lower dosage, and in long-term treatment of chronic conditions minimises the side effects of corticosteroid therapy. The increased amount of prednisolone in Cordex forte is designed to provide more effective treatment for severe fibrositic and arthritic conditions not responding adequately to the standard preparation. Deltagycortril contains similar constituents, Coactyl contains prednisone, acetylsalicylic acid and antacids.

LEDERKYN. — Chemistry: 3-sulphanilamido-6-methoxy pyridazine [sulphamethoxypyridazine]. This sulphonamide compound is rapidly absorbed, diffuses readily in the body, and penetrates into the cerebrospinal fluid, but its most exceptional feature is the slow rate of excretion. Optimal plasma concentrations can be maintained with a single daily dose of 0.5 gm. The low excretion rate markedly reduces the risk of crystalluria. The drug appears in the urine largely as the free compound, only about 20 per cent. being conjugated to form the acetyl derivative. That high ratio of free to conjugated material probably accounts for the high activity of the drug in infections of the urinary tract. An earlier sulphonamide of relatively slow excretion is sulphamerazine, but eight-hourly administration is necessary. Risks of anuria and haematuria are less, but a high proportion of the drug is excreted as the acetyl derivative. Another sulphonamide characterised by high urine solubility is sulphafurazole (Gantrisin), but that compound does not exhibit the slow excretion rate of sulphamethoxypyridazine. Sulphamethizole (Urolucosil) is also used for urinary infections, as a very high proportion of the drug is soluble at pH7, and that is reflected in the low dose (0.1 gm.).

PRODERMIDE.—Chemistry: Products containing lactic acid and amino acids, adjusted to pH 3.5, and formulated to resemble normal skin secretion. In many dermatological conditions the pH is raised. The *stratum corneum* only functions efficiently in an acid medium and similar considerations apply to some forms of vaginitis. The Prodermide products are designed to aid tissue repair by restoring a normal pH. Aci-jel represents an acidified product for the maintenance of vaginal pH.

TROPHENIUM. — Chemistry: Phenylhomatropinium chloride. That compound is a short-acting ganglion blocking agent. It prevents impulses from the vasomotor centre from passing beyond the autonomic ganglia, and the

arterioles become cut off from the normal controlling mechanisms. The loss of tone in those blood vessels results in vasodilatation, with a fall in blood pressure. The drug is therefore used to produce hypotension in vascular, neuro and other forms of surgery. Owing to the transient action of the drug, the effects on ganglia other than those controlling blood pressure are not of importance. Other ganglionic blocking agents of short duration include trimetaphen camphorsulphonate (Arfonad) and pentamethonium iodide.

PLESMET. — Chemistry: Ferrous aminoacetosulphate. It is well known that the oral administration of ferrous iron is an effective method of raising depleted haemoglobin levels. Inorganic salts are sometimes not tolerated, and organic compounds are often preferred. Plesmet represents both forms, as it is a combination of ferrous sulphate with glycine. The product has a high absorption coefficient. Organic iron preparations containing ferrous gluconate either alone or with other drugs include Cerevon, Fergon, Ferlucon, Ferronitum, Folvron and Hewfolco. Ferromyn is a preparation of ferrous succinate. Organic iron preparations for injection are Ferrivenin and Imferon.

NEOMIN. — Contains neomycin as therapeutic agent. That antibiotic is active against a wide range of organisms, but when given orally it is not absorbed. It is therefore given for its sterilising action on the gastro-intestinal tract. Bacterial resistance is uncommon and slow to develop. The side effects sometimes experienced with the orally absorbed antibiotics, in particular moniliasis, have not been observed. Myfradin is a similar oral preparation of neomycin, and the drug is also included in a wide range of preparations for infected skin conditions.

BOCOSAN. — Chemistry: Sodium perborate monohydrate, 70 per cent., with anhydrous sodium bitartrate, 30 per cent. Sodium perborate dissolves in water to give an alkaline solution containing hydrogen peroxide, which is the therapeutic moiety. That alkalinity is a disadvantage, as it has been known to cause inflammation of the oral mucous membrane. The addition of sodium bitartrate reduces the alkalinity, and a solution of Bocosan has a pH of about 8. Earlier attempts to reduce the irritant effects of sodium perborate included dilution of the powder with a mixture of mono- and tribasic calcium phosphates.

NEMBUDEINE.—This product now has a revised formula, containing a reduced amount of phenacetin, with caffeine and aluminium acetylsalicylate as additional constituents. Other products containing sedatives with analgesics are represented by Tercin, Sonalgin, Optalidon, Dormiprin, Tetraxon, Barbasprin, and Amytal compound.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," September 11

For pharmaceutical preparations, sanitary substances and disinfectants (5)

SCHERIPROCT, 766,174, by Schering, A.G., Berlin, Germany.

For lenses (9)

AMBION, 765,499, by Agfa, A.G., for Photofabrikation, Leverkusen, Germany.

For petri dishes for use in bacteriological experiments (9)

ANUMBRA, 766,118, by Skloexport Podnik Zahranicniho Obchodu Pro Vyzov Skla, Prague, 11, Czechoslovakia.

For all goods (17)

Device with the wording SUBA-RITE PROCESSED MATERIAL, 765,296, by William Freeman & Co., Ltd., Barnsley, Yorks.

From the "Trade Marks Journal," September 18

For chemical preparations for use in photographic, duplicating and printing processes (1)

JUNO, 767,114, by Juno Machinery, Ltd., Southend-on-Sea, Essex.

For non-medicated toilet creams (3)

SKIN DEW, 763,361, by Helena Rubinstein, Ltd., London, W.1.

For non-medicated toilet preparations, cosmetics, preparations for the hair, and dentifrices (3)

ISOFOLENE, 764,872, by A. G. für Lizenzverwertungen Alveco, Coire, Grisons, Switzerland.

For wax polishes containing silicones (3)

CONISIL SILICONE WAX, 765,131, by Stephenson Bros., Ltd., Bradford, Yorks.

For non-medicated toilet preparations (3)

MYSTERX, 765,146, by Victor Henri René Desvaux, London, S.W.1.

For non-medicated toilet preparations, cosmetic preparations, brilliantine, hair lotions, toilet shampoos, dentifrices, soaps and toilet articles (3)

TAFFETA, 765,224, by Charles Bedeman, Ltd., London, S.E.15.

For cleaning preparations (3)

SGON, B765,701, by Marcel Georges Auguste Tenconi, London, S.W.1.

For preparations for the hair and made-up kits comprising such preparations, and sachets; all for use in waving and setting the hair (3)

COTY CURL SET, 765,980, by Coty (England), Ltd., London, W.1.

For soap powders, detergents (not for use in industrial and manufacturing processes) and scouring preparations (3)

MAGIC WAND, 766,727, by Amalgamated Paints (London), Ltd., Mitcham, Surrey.

For all goods (3)

ATOMIUM, 766,812, by Gala of London, Ltd., London, W.1.

For theophylline and preparations containing theophylline all for pharmaceutical purposes (5)

ETOPHYLATE ETAPHYLLINE, 757,843, by Michel Delalande, Paris, France.

For surgical and medicated plasters and bandages (5)

CHESTNUT LEAF, 760,288, by Chemisch-Pharmazeutische Fabrik Adolf Klinge, G.m.b.H., Munich, Germany.

For pharmaceutical preparations and substances in tablet form for the treatment of inflammatory conditions (5)

ANTIPHLOGISTINE-TABS, B763,605, by Denver Chemical Manufacturing Co., Manhattan, New York, U.S.A.

For antibiotics (5)

ZYNOMYCIN, 765,997, by Distillers Co. (Biochemicals), Ltd., Liverpool, 19.

For all goods (5)

DICORTOL, 766,036, by Parke, Davis & Co., Detroit, Michigan, U.S.A., and Staines Road, Hounslow, Middlesex.

TRANQUIN, 766,093, by Clinical Products, Ltd., Richmond, Surrey.

PLESTRANIL, 766,873, by Warner-Lambert Pharmaceutical Co., Wilmington, Delaware, U.S.A.

SUCRONATE, 766,936, by Ashe Laboratories, Ltd., Leatherhead, Surrey.

For pharmaceutical preparations and substances (5)

VITAPEP, 766,872, by A. Wander, Ltd., London, W.1.

For insecticides, fungicides and weed-killing preparations (5)

TEENIDE, 767,279, by Plant Protection, Ltd., Yalding, Kent.

For cameras (9)

DUAFLASH, 764,957, by Kodak, Ltd., London, W.C.2.

For photographic apparatus and instruments (9)

MINOLTA, 765,406, by Japanese Cameras, Ltd., Stoke-on-Trent.

For glass articles for scientific or laboratory purposes and parts and fittings (9)

THERMOS, 765,680, by Thermos, Ltd., London, E.10.

From the "Trade Marks Journal," September 25

For chemical products for use in industry (1)

UVISTAT, 766,454, by Ward, Blenkinsop & Co., Ltd., London, W.C.1.

For chemical products (1)

ETHOQUAD, ETHODUOMEEN, 766,807-08, by Armour & Co., Chicago, Illinois, U.S.A.

LABACTA, 767,016, by Bell & Sons, Ltd., Liverpool.

For cleaning preparations, none being for toilet purposes (3)

CHIVICLEAN, 765,395, by Coliclean, Ltd., London, S.W.3.



Signs of the times...

There's no need to depend on Nature's signs to learn that winter is close at hand. Day by day, the growing number of customers who inquire about supplementary nutritional products provides an equally eloquent barometer! Time now for such customers to know about VI-MAGNA multivitamins and to appreciate how simple the routine is: just one VI-MAGNA Capsule or one teaspoonful of Syrup daily throughout the winter months. Every dose of VI-MAGNA provides the important supplementary factors in carefully balanced amounts... every dose contributes to improved well-being during the testing months ahead.

Vi-Magna^{*} CAPSULES & SYRUP

BRAND OF MULTIVITAMINS

*REGD. TRADE MARK

Each Capsule contains:

Vitamin A.....	5,000 I.U.
Vitamin D (viosterol)	500 I.U.
Thiamine mononitrate	3 mg.
Riboflavine (B ₂)	3 mg.
Pyridoxine HCl (B ₆)	0.2 mg.
Ascorbic acid (C).....	75 mg.
Niacinamide.....	20 mg.
Calcium pantothenate.....	1 mg.
Folic Acid.....	1 mg.
Vitamin B ₁₂	1 mcgm.
(as present in concentrated extractives from streptomyces fermentation)	
Bottles of 100 and 1,000	

Each teaspoonful (5 cc.) of Syrup contains:

Vitamin A (palmitate).....	5,000 I.U.
Vitamin D.....	500 I.U.
Thiamine HCl (B ₁).....	3.0 mg.
Riboflavine (B ₂)	2.0 mg.
Niacinamide.....	20.0 mg.
Ascorbic acid (C).....	75.0 mg.
Calcium pantothenate.....	1.0 mg.
Pyridoxine HCl (B ₆)	0.2 mg.
Vitamin B ₁₂	5.0 mcgm.
(as present in concentrated extractives from streptomyces fermentation)	
Bottles of 4 and 16 fl. oz.	



LEDERLE LABORATORIES DIVISION

Cyanamid of GREAT BRITAIN LTD., London, W.C.2

Inability to take aspirin . . .

IT WAS RECENTLY reported (*Brit. Med. J.*, 1: 444, 1957) that of 178 rheumatic patients, 25% could not take plain aspirin in adequate dosage.

Of this 25%, however, the great majority tolerated a modified aspirin such as Paynocil.

Not only are Paynocil tablets usually well tolerated by the stomach (even on the heavy dosage needed for rheumatoid arthritis), but they are extremely palatable, disintegrate instantly on the tongue without water, and cause no discomfort or unpleasant after-sensation.

. . . indicates

PAYNOCIL

**non-irritant, palatable,
quick-dispersing aspirin**

FOR ADULTS

PAYNOCIL

EACH TABLET CONTAINS

Acetylsalicylic acid 10 grains
Aminoacetic acid 5 grains

PACKAGES in sealed foil strips: Cartons of 18:
Retail Price 3/4d.

Dispensing packs
of 240:

Trade Price
(tax free)
21/8d.



FOR CHILDREN

Junior PAYNOCIL

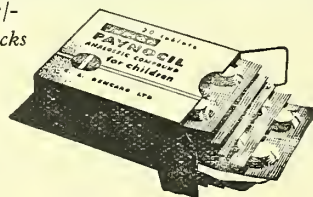
EACH TABLET CONTAINS

Acetylsalicylic acid 2½ grains
Aminoacetic acid 1¼ grains

PACKAGES in sealed foil strips: Cartons of 20:
Retail Price 2/-

Dispensing packs
of 240:

Trade Price
(tax free)
12/-



**Detailed recommendations for dosage in rheumatoid arthritis
will be gladly supplied on request**

603 Ph./65(68)/1

C. L. BENCARD LTD. PARK ROYAL, LONDON, N.W.10

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, OCTOBER 2: The most interesting feature of the week has been the resurgence of demand for several PHARMACEUTICAL CHEMICALS. Undoubtedly connected with the incidence of Asian 'flu has been the inquiry for ASPIRIN, and domestic supplies are being supplemented by imports, since British manufacturers are having to cope with heavy export commitments.

SALICYLATES have also been in demand particularly from some overseas countries. BARBITONE and PHENOBARBITONE the use of which continues to expand, and supplies are not too plentiful; at least one manufacturer has increased the schedule for the former by 5s. a kilo and the latter by 3s. 9d. Increased demand mainly on export account, but also from the home market, has similarly left QUININE manufacturers temporarily short, and quotations for the various salts show a rise from the low levels that have been ruling recently. Because of the easier position of MERCURY, the home prices of MERCURIALS have been reduced in some quarters.

Bulk lots of technical and solvent ETHERS have been increased by one penny per lb., the increase being more substantial where delivery is taken in winchesters. CALCIUM CARBONATE, precipitated, is £2 per ton dearer at £31.

In CRUDE DRUGS, business was at routine levels, with no extra call for seasonal items. New-crop AGAR was offered for forward shipment. There is a full range of Jamaican GINGER on the spot but it is believed that all stocks have now left the island and that spot prices may tend to harden. There are, however, abundant supplies of Cochin material, which may subdue that tendency. Ceylon PAPAIN for shipment was considerably marked up as the tight supply situation continued. QUILLAIA and Cape ALOES were both marked down 10s. a cwt. for shipment. Certain grades of SHELLAC were lower on the spot.

The tone of the ESSENTIAL OILS market was predominantly soft. Chinese and Brazilian PEPPERMINT were down by sixpence and one shilling per lb. respectively on the spot on lower advices from origin. Chinese ANISE was reduced by threepence per lb. as shipment offers became lower than the spot rates for the first time in several weeks. PATCHOULI was lower by one shilling per lb., with origin down by 1s. 6d. Ceylon CITRONELLA was slightly dearer but Formosan remained weak. West Indian distilled LIME continued firm and in short supply at 55s. per lb. on the spot, but reduced interest on the part of American buyers may cause some easement in the forward position before long.

Pharmaceutical Chemicals

ADRENALINE. — Rates for synthetic B.P. are from 1s. 1d. (500-gm. lots) to 1s. 6d. (10-gm.) per gm. and ACID TARTRATE, B.P., from 9d. to 1s.

p-AMINOSALICYLIC ACID. — The SODIUM salt is about 24s. 9d. per kilo.

ASPIRIN.—5-cwt. lots are 4s. 9d. per lb.; 1-cwt., 4s. 11d.

BARBITONE.—Dearer. Rate for less than 50-kilo lots is now 53s. 6d. per kilo. The SODIUM derivative is 56s. 9d. per kilo.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—

	28 lb. to 1-cwt.		1-cwt.		5-cwt.	
	s.	d.	s.	d.	s.	d.
CARBONATE ..	22	3	21	9	21	4
SALICYLATE ..	21	9	21	4	20	10
SUBGALLATE ..	21	1	20	8	20	2
SUBNITRATE ..	20	5	20	0	19	6

The 1-cwt. rates (per lb.) for other salts are:—CITRATE, B.P.C., 22s. 8d.; NITRATE, crystal, 14s. 8d.; OXIDE, B.P.C., 27s. 7d.; OXYCHLORIDE, B.P., 27s. 9d.; OXYIODOGALLATE, B.P.C., 28s. 9d.; SODIUM TARTRATE, 35s. 6d.; and TRIBROMPHENATE, B.P.C., 26s. 9d.

CALCIUM CARBONATE.—B.P. light-precipitated powder is £31 per ton, ex store. Minimum 1-ton lots.

CARMINE. — Price is 105s. per lb. for 1-cwt. lots.

DIPHENAN.—Prices range from 55s. 3d. (56-lb.) to 63s. (1-lb.) per lb.

ETHER.—Prices (per lb.) in winchesters are as follows:—TECHNICAL, B.S.S., and SOLVENT, 5-cwt., 2s. 7d.; (4s. 1½d. litre). In drums the price is 2s. 2d. per lb. ANÆSTHETIC, B.P., 5-cwt., 3s. 10d.; 10-cwt., 3s. 9d.

HYDROCYANIC ACID. — Dilute B.P.C. is from 3s. 2d. to 4s. per litre, as to quantity; Scheeles is from 3s. 10d. to 4s. 9d.

HYOSCINE HYDROBROMIDE. — Price per oz. is 102s.

ICHTHAMMOL. — B.P. is from 2s. to 2s. 6d. per lb. in 1-cwt. lots as to origin and container.

IRON SALTS. — GLUCONATE, B.P.C., is 6s. 6d. per lb. in 1-cwt. lots; SULPHATE, B.P. crystals are 9d. per lb. in 28-lb. lots; 1-cwt. is 55s. per cwt. and 5-cwt., 50s. per cwt. Granulated and pea crystals are 2s. 6d. per cwt. more; SULPHATE EXSICCATED is 1s. 5d. per lb. for 28-lb., 1-cwt. 118s.; 5-cwt., 113s. per cwt., 1-cwt. fibre kegs free. Other packages extra. PHOSPHATE, SACCHARATED, B.P.C., 28-lb. lots are 3s. 7d. per lb. OXIDE, RED PRECIPITATED, B.P.C., 1949, 1-cwt., 2s. 1d. per lb.; CARBONATE, SACCHARATED, B.P.C. 1949, 28-lb., 3s. 1d.; 1-cwt., 2s. 10d. AMMONIUM SULPHATE, 1-cwt., 1s. 7d. per lb. QUININE CITRATE, 2s. 1d. per oz. in 100-oz. tin.

LACTOSE.—English, in 1-ton lots packed in 1-cwt. paper-lined sacks, is £129 10s. per ton, delivered in the United Kingdom.

LEAD ACETATE.—B.P. crystals are 200s. per cwt. and technical, 180s.

MAGNESIUM CARBONATE.—Minimum bulk rate for LIGHT is 121s. per cwt.; HEAVY is 160s. per cwt. for 5-cwt. lots and about 130s. per cwt. for 1-ton lots, delivered U.K.

MAGNESIUM HYDROXIDE.—Makers' prices for B.P.C. are 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

MAGNESIUM OXIDE, B.P.—Bulk rates are as follows:—LIGHT, 3s. 3d. per lb., and HEAVY, 5s. 10d. per lb.

MAGNESIUM PEROXIDE.—Price (per lb.) for 1-cwt. lots of B.P.C. (15 per cent.) is 3s. 11d.

MAGNESIUM SULPHATE. — Quotations for B.P. in minimum 1-ton lots vary between £20 and £21 per ton according to size of crystal and manufacturer. Exsiccated is £42 per ton. All ex works.

MERCURY DERIVATIVES. — Quotations (per kilo) for less than 50-kilo lots are as follows:—AMMONIATED, B.P. lump or powder, 61s.; PERCHLORIDE, B.P., powder, 53s. 6d. and lump, 54s. 6d.; SUBCHLORIDE (calomel), B.P., 62s. OXIDES, yellow, B.P., 64s.; red, B.P.C., 1949, 65s. 6d.

PARAFFINS. — Prices to wholesale distributors are:—Liquid: HEAVY, B.P. £107 17s. 6d. per ton; LIGHT, B.P. £87 15s.; Technical White oils, £79 5s. for the LIGHT and £92 15s. for the MEDIUM, all in 40-50 gall. returnable loaned drums, delivered U.K. Soft: WHITE, medium consistency is now £110 15s. per ton. WHITE, soft consistency, £107 7s. 6d., and YELLOW, £88 10s. all B.P., in non-returnable drums delivered.

PHENOBARBITONE. — Under 50-kilo lots are 52s. 3d. per kilo and SODIUM, 55s. 6d.

POTASSIUM PERMANGANATE. — Current rate for B.P. material for 1-cwt. lots is 1s. 11½d. per lb. Technical is 20s. 6d. per cwt. and £193 10s. per ton.

QUININE.—Makers' rates (per oz.) for 100-oz. lots are: SULPHATE, B.P., 1932, 1s. 7½d.; SULPHATE, B.P. 1953, 1s. 10d.; BISULPHATE, 1s. 8d.; DIHYDROCHLORIDE, 2s. 3½d.; HYDROCHLORIDE, 2s. 1½d.; QUININE and UREA HYDROCHLORIDE, B.P.C., 4s., TANNATE, 2s. 7d.

SODIUM BROMATE.—1-cwt. lots are quoted at 9s. 9d. per lb.

SODIUM PHOSPHATE. — B.P.C. powder is 2s. 3d. per lb.

SODIUM SULPHATE. — Makers' prices for B.P. range from £12 10s. to £19 17s. 6d. per ton as to crystal and quantity, ex works.

SODIUM SULPHITE. — 1-ton lots on the spot of ANHYDROUS (48-50 per cent.) are £71 10s. per ton in 1-cwt. drums or £67 5s. in 1-cwt. bags. CRYSTALS, B.P.C., are £32 15s. per ton in 2-cwt. paper-lined bags. Commercial crystals are from £27 to £28 15s. as to packing.

STILBOESTROL.—1-kilo lots of B.P. and DIPROPIONATE are 730s. per kilo.

STRYCHNINE. — ALKALOID, 6s.; HYDROCHLORIDE, 5s. 10d.; SULPHATE, 5s. per oz., ex works.

SULPHOCARBOLATES.—SODIUM PHENOLSULPHONATE, B.P.C., 1949 (powder) is 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., 1949, is 5s. 6d.

SULPHUR.—B.P. PRECIPITATE in 1-ton lots is £112 10s. per ton, delivered U.K.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are 15s. 9d. per lb.; 28-lb., 14s. 6d.

TEREBINTH.—B.P. is 2s. 3d. per lb.

THEOBROMINE. — ALKALOID is from 25s. 6d. to 26s. 6d. per lb. and SODIUM SALICYLATE, 22s.

THEOPHYLLINE.—ALKALOID, ANHYDROUS, is quoted at 20s. per lb.; AMINOPHYLLINE, 18s. 6d. per lb.

Crude Drugs

AGAR—Kobé is 12s. 3d. per lb., duty paid. New-crop for January-February 1958 shipment, 10s. 3d., c.i.f.

ALOE. — Cape prime for shipment is about 220s. per cwt., c.i.f.; spot, 260s.

BALSAMS.—Quotations (per lb.) are:—CANADA: Spot is 26s. and shipment, 25s., c.i.f. COPAIBA. Para is from 7s. 9d. to 11s., duty paid. PERU, 11s., duty paid (no c.i.f. offers). TOLU (genuine as imported), 27s. 6d.; B.P., 17s. 6d., spot.

BENZOL.—Sumatra No. 1 block on the spot is £26 to £27 (£23 5s., c.i.f.), and No. 2, £21 10s. Almonds (Sumatra), 16s. per lb., c.i.f. and 18s. 6d., spot.

CALAMUS. — Dutch root is quoted at 1s. 4d. per lb., c.i.f.

CAMPBOR.—B.P. POWDER is from 5s. 3d. per lb., duty paid. TABLETS, ¼-oz. are 5s. 9d., c.i.f., and 6s. in bond.

CARDAMOMS. — Aleppy greens on the spot are 15s. per lb. and shipment 13s. 9d., c.i.f. No. 1 seed, 21s. 6d. per lb. spot and 20s. 6d., c.i.f.

CASSIA BARK.—Whole: Selected is 150s. per cwt. in bond and shipment, 145s., c.i.f. No. 1 broken, 135s., in bond and 145s., c.i.f.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb., OOOO, 7s. 11½d.; OOO, 7s. 7d.; OO, 7s. 5d.; seconds, 6s. 8d.; featherings, 2s. 4½d.; quillings, 4s. 10½d.; chips, 11d.

COCHINEAL. — Silver - grey Peruvian 9s. 6d. per lb. Canary Isles black-brilliant, 29s. 3d.

COCCILLANA.—Bark is 1s. 10½d. per lb. on the spot.

COLOCYNTH PULP. — Spot, 4s. per lb., duty paid.

DIGITALIS LEAF.—Purpurea (1956 crop), is offered at 1s. 2½d. per lb., c.i.f.

ERGOT.—Portuguese is 5s. 6d. per lb. c.i.f., for prompt shipment and 6s. spot. American, 5s. 9d., spot.

GINGER.—African on the spot is 130s. per cwt. and shipment, 110s., c.i.f. Jamaican No. 3 on the spot is offered at 565s. Cochino spot, 112s. 6d.; shipment 92s. 6d., c.i.f.

GUM ACACIA.—Kordofan cleaned sorts are 135s. per cwt. on the spot; affloat 127s., c.i.f.

HYOSCYNAMUS.—Dutch leaves (*niger*), are 1s. 6½d. per lb., c.i.f., prompt shipment.

IPECACUANHA.—Spot Colombian is quoted at 62s. 6d. per lb. Shipment (c.i.f.) Colombian, 60s.; Nicaraguan, 65s.; Matto Grosso, 63s.; Costa Rican, 68s. 6d.

JALAP ROOT.—Mexican on the spot testing 17 per cent., is 8s. per lb. Brazilian, 2s. per lb. spot and 1s. 10d. for affloat parcel, landed terms.

LOBELIA HERB. — Spot offers are from 5s. 3d. to 5s. 6d. per lb. New-crop for shipment, 4s. 9d., c.i.f.

MENTHOL.—Chinese. Spot is now 54s. per lb., duty paid; October-November shipment, 47s., c.i.f. Brazilian, spot, 42s., duty paid; shipment, 39s. 6d., c.i.f. Formosan, 46s., c.i.f., nominal, Japanese, 46s., c.i.f.

NUTMEGS. — West Indian 80's not quoted; sound unassorted, for shipment 15s. 9d. per lb.; defectives, 10s., f.o.b.

ORANGE PEEL. — West Indian bitter quarters are 1s. per lb.; Spanish, 1s. 3d.; thin-cut Tripoli, 2s. 4d.

PAPAIN.—Spot: East African grade 2 is 25s. per lb.; No. 1, unobtainable, Ceylon white, 30s., c.i.f. (spot cleared); brown, 28s., c.i.f.

PEPPER. — Business in white Sarawak passing at 2s. 4d. per lb. on spot, with shipment offering at 2s. 3½d., c.i.f. Black Sarawak sold at 1s. 7½d. on spot and shipment at 1s. 6½d., c.i.f. Black Malabar on spot is 210s. per cwt. and 197s. 6d., c.i.f., October-November shipment.

PEPPERMINT LEAVES. — Dutch new-crop for shipment, 2s. 9d. per lb., c.i.f.

PIMENTO.—Spot is 510s. per cwt.

PODOPHYLLUM.—*Emodi* is 165s. per cwt., c.i.f. *Peltatum* 3s. 10½d. per lb. spot, and 400s. per cwt., c.i.f. for shipment.

PYRETHRUM.—Extract, minimum 25 per cent. w/w pyrethrins, is 72s. per lb.

QUASSIA.—Chips are 47s. 6d. to 50s. per cwt., on the spot.

QUILLARIA.—Spot offers of whole bark at 195s. per cwt., and cut, 230s. Shipment offers at 150s., c.i.f.

RHUBARB.—Quotations for Chinese are from 6s. 6d. to 9s. 3d. per lb., as to quality.

SAFFRON.—Mancha Selecta is 250s. per lb., on the spot.

SASSAFRAS.—Selected bark is 5s. per lb. and 160s., c.i.f., quoted for shipment.

SEEDS. — (Per cwt.). ANISE.—Cyprian, 165s., spot London; shipment, 160s., c.i.f. CARAWAY.—Dutch, 97s. 6d. quoted, duty paid. CELERY.—Indian firm on spot at 190s. CORIANDER. — Spot: Moroccan, 92s. 6d.; Rumanian, 67s. 6d.; Polish, 60s. (splits, 52s. 6d.) all duty paid. Moroccan for shipment is quoted at 55s., c.i.f. CUMIN.—Spot: Cyprian, 180s.; Iranian, 170s., in bond. Cyprian for shipment 160s., c.i.f. DILL.—Indian, 67s. 6d., spot; shipment, 57s. 6d., c.i.f. FENNEL. — Quiet, Indian offering at 125s., spot. Shippers asking 137s. 6d., c.i.f. FENUGREEK. — Moroccan, 65s., duty paid. MUSTARD.—English 65s. to 77s. 6d., according to quality.

SENEGA.—Spot is 18s. 3d. per lb. with shippers asking 17s. 3d., c.i.f.

SENNA. — *Timevelly* LEAVES, prime No. 1, 1s. 5d. per lb., prime No. 2, 1s. 3d., f.a.q., No. 3, 10d. PODS, manufacturing, 1s. 4½d.; hand-picked, 1s. 8d. to 2s. 6d. Alexandria pods available at from 1s. 6d. with hand-picked from 3s. 6d. to 8s.

SHELLAC. — F.O.T.N. 220s. per cwt., F.O. No. 1, 235s.; fine orange, 250s. to 310s.

SLIPPERY ELM.—Grinding quality bark is 2s. 7½d. per lb.

SQUILL.—New-crop white is offered on the spot at 60s. per cwt.

STRAMONIUM.—Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

STROPHANTHUS.—*Kombé* on the spot is 8s. 6d. per lb. for the 100 per cent.; *Gratus* is unobtainable on the spot.

STYRAX. — Quotations are 9s. 6d. per lb., landed, duty paid.

TRAGACANTH.—No. 1 ribbon is £155 to £160 per cwt., No. 2, £137 10s. to £140.

TONQUIN BEANS.—Para on the spot are cleared; October-November shipment, 7s. 6d., c.i.f.

VALERIAN ROOT.—Indian on the spot is 130s. and Belgian, 175s. to 195s. per cwt. Dutch (max. 2½ per cent. sand) for prompt shipment is 168s., g/n. c.i.f.

WITCH HAZEL LEAVES.—Spot supplies are 1s. 11d. per lb.

Essential and Expressed Oils

AMBER.—Rectified on the spot is 1s. 6d. per lb.

ANISE. — Chinese, 11s. 2d. per lb., spot; shipment, 10s. 10½d., c.i.f.

BAY.—West Indian is 12s. 6d. per lb. on the spot.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

BOIS DE ROSE.—Brazilian is 26s. per lb. on the spot and 24s. 9d., c.i.f.

CADE.—Spanish is 3s. 6d. per lb. for drum lots.

CAJUPUT. — Spot supplies are from 10s. 6d. per lb.

CAMPBOR, WHITE.—Chinese is 2s. per lb., duty paid.

CANANGA.—Spot is 52s. 6d. per lb.

CARDAMOM.—Price per lb. is from 350s. for English-distilled and from 267s. 6d. to 297s. 6d. for imported.

CASSIA.—Spot is 13s. 6d. per lb.; shipment, 13s. 1½d., c.i.f.

CELERY SEED.—Oil is 95s. per lb. for bulk lots.

CINNAMON.—From quillings, best English-distilled is 50s. per oz.; other B.P. oils, from 165s. per lb. Ceylon leaf, crude, 14s. 6d. and rectified, 25s. per lb., spot.

CITRONELLA. — Ceylon, spot, 4s. 7½d.; shipment, 4s. 3d., c.i.f. Formosan, October-November, 6s. 2d., c.i.f. Spot, 6s. 8d., in bond.

CLOVE.—Madagascar leaf is 7s. 3d. per lb. duty paid and 6s. 2d., c.i.f., for shipment. Rectified B.P., 15s. 87-88 per cent., 10s. 6d. Distilled bud oil, English, from 28s. 9d. to 35s. as to quantity.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER. — B.P. oil is quoted from 77s. 6d. per lb.

CUBE. — Spot supplies are offered at 45s. per lb.

DILL. — B.P. imported is 36s. per lb.

EUCALYPTUS.—70 to 75 per cent. eucalyptol on the spot is 4s. 9d. per lb. 80 to 85 per cent., 5s. 6d.

GERANIUM.—Bourbon is 115s. per lb. on the spot and Algerian, 97s. 6d.

GINGER. — English-distilled oil is 215s. per lb. Imported: Jamaican, 167s. 6d.; Chinese, 100s., duty paid.

HYATA. — Formosan, minimum 90 per cent. safrole, 4s. 10½d. per lb., spot.

LAVANDIN. — Spot is from 11s. to 14s. 9d. per lb. for original drums.

LAVENDER.—French oil, 40-42 per cent. is from 46s. to 90s. per lb. as to make.

LAVENDER SPIKE. — Spanish is offered from 12s. 6d. to 15s. per lb. on the spot.

LEMON.—Prices of B.P. oil (4 per cent. citral) vary greatly on the spot according to quality and range between 25s. and 40s. per lb. Californian, 25s. 9d. to 28s. 6d., c.i.f., as to quality, subject to licence.

NUTMEG. — Imported B.P. oil is about 102s. 6d. per lb. English-distilled, 180s., nominal.

OLIVE.—French is 25s. 9d. per gall. on the spot, ex-wharf, for B.P. quality.

ORANGE.—Spot quotations of sweet oil include Floridan at 4s. 6d. per lb.; Californian, 9s.; West Indian, 7s. 6d.; South African, 7s. 6d.; West African, 15s. 6d.; Israeli, 12s. For shipment, proprietary brand Californian cold-pressed U.S.P., no offers; distilled is 5s., c.i.f. Terpeneless is 200s. per lb., spot and bitter, 21s. 6d. per lb.

PATCHOULI.—Penang is 31s., in bond, and 29s., c.i.f.

PENNYROYAL. — Spot is quoted from 17s. 6d. per lb., duty paid.

PEPPERMINT. — *Arvensis*: Chinese is 26s. 6d. per lb. on the spot and 26s. 3d., c.i.f. Brazilian, 15s. 6d., spot and 14s. 3d., c.i.f. Formosan, 18s. 3d., c.i.f. (second-hand sellers); spot, 18s. 9d. Italian "Mitcham"-type oil on spot is from 52s. 6d.; American, 28s. to 37s. 6d. as to origin.

PETTITGRAIN. — Paraguay is offered at 23s. 6d. per lb.

PIMENTO.—English-distilled berry is 180s. per lb.; imported, 75s. Rectified leaf, 27s. 6d. per lb. for small lots.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *syvestris*, 25s.; Siberian (*abietis*), 12s. 6d. to 14s.

ROSEMARY. — Spanish is firm at 7s. 6d. per lb.

SPEARMINT.—Offers of U.S.P. grade are from 29s. per lb. on the spot.

VETIVERT.—Spot is currently at about 95s. per lb.

UNITED STATES REPORT

NEW YORK, OCTOBER 1: The trend in MERCURY prices is downward as increased production in Italy and Spain becomes available. Sales of CRUDE DRUGS were at a disappointing level in September with buying on a hand-to-mouth basis. There were no price changes in ESSENTIAL OILS but CARDAMOM, LEMON, NUTMEG and Italian BERGAMOT all displayed firm tones.

WORLD TRADE

India Reduces Imports.—The import into India of a wide range of consumer goods has been banned, and of many others drastically reduced, for six months beginning on October 1. Among the products for which no further import licences will be issued are razor blades and all toilet goods.

Sulphuric Acid Plant for East Pakistan.—A sulphuric acid plant at the Karnafuli Paper Mills in East Pakistan has gone into production, according to the Pakistan Industrial Development Corporation. The plant, first of its kind in the province, has a capacity of 10 tons of commercial grade sulphuric acid a day with a purity of 98 per cent.

Finnish Import Liberalisation.—The Finnish Foreign Trade Association has supplied its members with a list of commodities that are to be on the free import list from October 1. But it says

that the list may only be valid for E.P.U. countries. Dollar countries are excluded. The Association points out that the list will, in the first instance, involve "automatic licensing" of the commodities but at a later date no licences will be required. Among the main free-listed lines are most heavy chemicals and dyes.

U.S. Overseas Companies.—United States manufacturers are expected to step up licensing of companies abroad to turn out their products, according to Dr. J. H. Behrman, who is making a study of American firms' licensing practices for the Patent, Trademark and Copyright Foundation of Washington. Among the reasons stimulating foreign licensing, Dr. Behrman said, are the desire of U.S. firms to maintain contact with customers who have gone abroad; and the belief that "know-how" cannot be "hoarded" indefinitely.

PRINT AND PUBLICITY

DISPLAY

MORNY, LTD., 22 Wadsworth Road, Greenford, Middlesex: Crownet for Mornay talcum powder.

PRESS ADVERTISING

BENIGERS, LTD., Holmes Chapel, Cheshire: Benigers Food and D-Factor. In *Daily Express*, *Daily Mail*, *New Chronicle*, *Daily Telegraph*, *Sunday Express*, *Sunday Times*, *Radio Times* and leading women's magazines.

PUBLICATIONS Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.

Booklets and Leaflets

PUBLICITY AND LIAISON BRANCH, FOREST RESEARCH INSTITUTE AND COLLEGE, Dehra Dun, India. "Methods of Propagation of *Rauwolfia Serpentina*," Indian Forest Leaflet No. 148. Pp. 8. *Rauwolfia serpentina* could be readily propagated by seeds, stumps, stem cuttings and root cuttings. Germination percentage from seed was 25 to 50 per cent., from root cuttings, 52 to 79 per cent., and from stem cuttings, 53 to 65 per cent. The total alkaloidal content of roots produced by different methods of propagation satisfies the B.P.C. standard of not less than 0.5 per cent.

THE BRITISH DRUG HOUSES, LTD., Graham Street, London, N.1: "B.D.H. Sex Hormones." Pp. 20. "Cobaxol Ointment for Occupational Dermatitis," "Propoquin Analgesic" (leaflets).

Periodicals

KODAK, LTD., Kodak House, Kingsway, London, W.C.2: "Kodak View, No. 2, 1957." Pp. 28. ASSOCIATION OF BRITISH CHEMICAL MANUFACTURERS, 36 Strand, London, W.C.2: "Gassing



TOPICAL: To suggest its suitability for use when Asian 'flu is about, Thomas Kerfoot & Co., Ltd., Vale of Bardsey, Ashton-under-Lyne, have produced for Vapex inhalant and inhaler the poster illustrated. Size 24 x 15 in., the poster is in bold colours.

Casualties." Pp. 44. A system of labels to accompany passing casualties sent to hospital to enable treatment to be instituted without delay. Price 5s. to non-members, 3s. to members.



SHOW MATERIAL RANGE: Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, have produced the range of show material illustrated. The showcards are finished in maroon and wood veneer, with new-style bottle crowns in the same colours.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, October 7

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY. Lecture room, Medical-Chirurgical Society, 64 St. James's Street, Nottingham, at 7.30 p.m. Mr. H. S. Granger (a member of the Society's Council) on "Education for What?"

Tuesday, October 8

BIRMINGHAM PHARMACEUTICAL ASSOCIATION. Imperial Hotel, at 8 p.m. Dr. L. Dickinson (Books Pure Drug Co., Ltd.), on "Virus Research." GLASGOW PHARMACY CLUB. James Craig's lecture room, 453 Saughtonhill Street, at 7.30 p.m. Whist drive. Ticket 4s. 6d.

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Sun Hotel, Hanworth Road, at 8 p.m. Mr. J. Charlton on "The Basis and Problems of N.H.S. Pricing." Film: "Counting the Cost."

MIDLANDS SECTION, SOCIETY FOR ANALYTICAL CHEMISTRY, Masonic Theatre, Birmingham University, Birmingham, 3. Mr. H. Varley on "Analytical Methods in Clinical Biochemistry."

PRESTON PHARMACEUTISTS' ASSOCIATION, County Club, Windley Square, at 7.45 p.m. Mr. C. Haydock on "X-rays."

SOUTH-EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY. New Cross Inn, 223 New Cross Road, London, S.E.14, at 8 p.m. Miss L. P. Ferry (Goya, Ltd.), on "Pharmaceutical Raw Materials."

Wednesday, October 9

BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY. South wing, General Hospital, Kempston Road, Bedford, at 7.45 p.m. Dr. J. H. L. Eason (consultant physician, Bedford General Hospital) on "Recent Advances in the Treatment of Children's Diseases."

BIOLOGICAL METHODS GROUP, SOCIETY FOR ANALYTICAL CHEMISTRY. The Farnham, Tudor Street, London, E.C.4, at 6.30 p.m. Discussion on "Biological Standards."

CAMBRIDGE AND HINTINGDON BRANCH, PHARMACEUTICAL SOCIETY. The Rose, Rose Crescent, Cambridge, at 8 p.m. Mr. J. L. Haytine on "Radioisotopes in Medicine."

ENFIELD CHEMISTS' ASSOCIATION, Fins Hall, Windmill Hill, London, at 8 p.m. Supper-dance. Ticket 12s. 6d.

GLASGOW AND WEST OF SCOTLAND BRANCH, PHARMACEUTICAL SOCIETY. Craig's restaurant, St. Vincent Street, Glasgow, C.1, at 7.45 p.m. Presentation of 7000s: Mr. D. W. Hudson (president of the Society) on "Marketing Policy."

MANCHESTER AND SALFORD BRANCH, PHARMACEUTICAL SOCIETY. pharmacy department, Manchester University, at 5.30 p.m. Opening meeting and prizes presentation.

READING BRANCH, PHARMACEUTICAL SOCIETY. Grosvenor House Hotel, Kidmore Road, Caversham, at 8 p.m. Social evening and dance. Ticket 10s. 6d.

TEES-SIDE BRANCH, PHARMACEUTICAL SOCIETY. Vane Arms Hotel, High Street, Stockton-on-Tees, at 7.45 p.m. Film show by Glaxo Laboratories, Ltd.

Thursday, October 10

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY. Bluebird cafe, Parliament Street, at 7.30 p.m. Dr. G. Henry on "World Health Organisation."

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Brompton Technical College, at 7 p.m. Mr. F. P. W. Witheringham on "Biochemical Research in Relation to Insect Control."

Friday, October 11

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6.30 p.m. Professor B. Lynskey (department of organic chemistry, Leeds University) on "Recent Advances in the Chemistry of Vitamin D."

HEUL CHEMISTS' ASSOCIATION AND BRANCH. Imperial Hotel, at 8 p.m. Dr. K. R. Capper (editor, Society's scientific publications) on "The New National Formulary."

TELEVISION ADVERTISING

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies. Where known, the number of appearances of the product during the week is shown in parentheses.

October 13-19 LONDON

Yaxa antiperspirant (2). Pantene. Punch and Judy children's tooth-paste (2). Corvette electric after shave. Persomnia tablets. Optrex eye lotion. Gibbs' S.R. tooth-paste (7). Moorland indigestion tablets. Creme Puff. Loxene medicated shampoo. Macleans indigestion remedies (3). Milk of Magnesia products (3). Alka-Seltzer (3). Fynnon salt (2). Yeast-Vite (2). Crookes halibut oil capsules (2). Brylcreem (5). Linc-o-lin beer shampoo. Fresh-air (2). Sunsil shampoo (4). Vita Glucose. Opas tablets. Coty 24 lipstick. Germolene (4). Beecham's powders (4). Beecham's pills (4). Vaseline liquid shampoo (3). Nervone (2). Delrosa rose hip syrup. Cussons Imperial Leather (2). Optrex eye lotion (2). Pepsodent tooth-paste. Vinolia baby products (2). Airwick (2). Iron Jelloids (3). Dentiline (3). Vairfort (2). Christy's liquid lanoline. Gaylord Hauser extra potency yeast tablets. Vaseline hair cream (3). Aspro (5). Forhans tooth-paste (3). Cadum toilet soap. Colgate dental cream. Halo liquid shampoo. Colgate chlorophyll tooth-paste. Veno's cough mixture (4). Phosferine (3). Drene (2). Glem tooth-paste (2). Macleans tooth-paste (2). Macprin (2).

MIDLAND

Penetrol inhalant. Pantene. Skin-Glo. Punch and

Judy children's tooth-paste. Safada cream shampoo (2). Corvette electric after shave. Persomnia tablets. Zero cold water wool shampoo (3). Pure Silvikrin. Silvikrin shampoo. Crookes hand cream (2). Cutex stay fast lipstick (3). Gibbs' S.R. tooth-paste (7). Moorland indigestion tablets. Creme Puff. Loxene medicated shampoo. Macleans indigestion remedies (3). Milk of Magnesia products (4). Alka-Seltzer (2). Fynnon salt (2). Yeast-Vite (2). Crookes halibut oil capsules (2). Brylcreem. Zoflora. Sunsil shampoo (5). Vita Glucose. Opas tablets. Coty 24 lipstick. Nervone. Delrosa rose hip syrup. Poly Roll absorbent paper. Cussons Imperial Leather (2). Optrex eye lotion (2). Pepsodent tooth-paste (2). Vinolia baby products (2). Air-wick (2). Christy's lanoline face pack (2). Hi-Glo shampoo (2). Gaylord Hauser extra potency yeast tablets. Vaseline hair cream (3). Aspro (6). Cadum toilet soap (3). Colgate dental cream. Halo liquid shampoo (2). Colgate chlorophyll tooth-paste. Veno's cough mixture (4). Phyllosan (3). Phosferine (2). Germolene (3). Beecham's pills (3). Drene. Glem tooth-paste (2). Macleans tooth-paste (2). Macprin.

NORTH

Penetrol inhalant. Yaxa antiperspirant. Pond's beauty preparations. Safada cream shampoo (2). Snowfire waveset (2). Zero cold water wool shampoo (3). Silvikrin shampoo. Silvikrin hair cream. Countess conditioning cream (2). Gibbs' S.R. tooth-paste. Moorland indigestion tablets. Creme Puff. Loxene medicated shampoo. Macleans indigestion remedies (2). Milk of Magnesia products (2). Alka-Seltzer (2). Fynnon salt. Yeast-Vite (2). Crookes halibut oil capsules (2). Brylcreem (4). Horlicks (4). Vapex. Sunsil

shampoos (3). Vita Glucose. Opas tablets. Coty 24 lipstick. Nervone. Delrosa rose hip syrup (2). Cussons Imperial Leather (3). Optrex eye lotion (3). Pepsodent tooth-paste (4). Vinolia baby products. Air-wick (3). Iron Jelloids (3). Satinex safety bleach (2). Christy's lanoline face pack (2). Vaseline hair cream (3). Aspro (7). Cadum toilet soap (3). Colgate dental cream. Halo liquid shampoo (2). Colgate chlorophyll tooth-paste. Veno's cough mixture (5). Thermogene (3). Phyllosan (3). Phosferine (3). Germolene (3). Beecham's pills (5). Glem tooth-paste (2). Macleans tooth-paste (2). Macprin (2).

SCOTLAND

Penetrol inhalant. Yaxa antiperspirant. Pantene. Pond's beauty preparations. Eno's fruit salt (3). Milpar (2). Persomnia tablets. Knight's Castile. Moorland indigestion tablets. Creme Puff. Loxene medicated shampoo. Macleans indigestion remedies (3). Milk of Magnesia products. Alka-Seltzer. Fynnon salt. Yeast-Vite. Horlicks (3). Nurse Harvey's mixture (2). Linc-o-lin beer shampoo. Vita Glucose. Opas tablets (2). Coty 24 lipstick (2). Nervone (3). Delrosa rose hip syrup (2). Cussons Imperial Leather (2). Pepsodent tooth-paste (4). Vinolia baby products (2). Air-wick (3). Aspro (2). Cadum toilet soap (2). Colgate dental cream. Halo liquid shampoo (3). Veno's cough mixture (4). Glem tooth-paste (7). Macleans tooth-paste (2). Macprin (2).

Other products which are currently being advertised (but for which no station has been notified) include: Sebix shampoo. Scotties tissues. Pond's products. New Araby soap. Scan eye lotion. Scram. 1001 Cleaner. Halo shampoo.

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; * =Tax 30 per cent.; † =Tax 90 per cent.

BEECHAM PHARMACEUTICALS, LTD. (from October 1)
Germolene ointment* 15 5 2 0 A
34 9 4 6 A

BOOTS PURE DRUG CO., LTD. (from September 24)
Viules medical cartridges:—
morphine sulphate Each

gr. 1 mil 6	2 11	4 4½ R
gr. 1 mil 6	3 2½	4 9½ R
gr. 1 2 mils 6	3 9½	5 8 R
100	49 8	74 6 R

pethidine hydrochloride 150 mgm, 2 mils 100	55 7	83 4 R
procaine hydrochloride 2 per cent, 2-2 mils 6	2 4	3 6 R
testosterone propionate 25 mgm, 1 mil 6	7 4	9 9 R
100	111 9	149 0 R
50 mgm, 1 mil 6	11 9	15 8 R

THE BRITISH DRUG HOUSES, LTD. (corrected note)
Radiostolum capsules 500 10 9 16 2 A

CONTINENTAL LABORATORIES, LTD.
Taxol tablets* 100 49 8 7 5 R
Neutraphylline suppositories (adult) 6 42 4 5 3½ R
72 387 8 48 5½ R
(infant) 6 33 3 4 2 R
with phenobarbitone tablets 25 49 8 6 2½ R
250 354 5 44 3½ R
suppositories 6 44 5 5 7 R
Stannoxyll tablets* 80 38 4 5 9 A
dispensing pack 500 182 0 A
dispensing pack 1,000 351 0 A

GENATOSAN, LTD. (from October 9)
Acni* 24 0 3 8 R
Barquinol 23 0 2 8 R
Psorox 1 oz. 25 0 3 5 R
2 oz. 37 0 5 2 R
Prurex 23 0 3 3 R
Sebigen 24 0 3 4 R

CHAS. H. PHILLIPS CHEMICAL CO., LTD. (from October 1)
California syrup of figs* 13 11 1 11 A
27 0 3 9 A
(In Irish Republic) 15 9 1 9 A
31 6 3 6 A

SELTO (EASTBOURNE), LTD.
Selto dental salt tooth-powder* moulding 23 0 3 2 A
refill 15 8 2 2 A
tin 12 7 1 9 A

soluble dental cleanser*	11 6	1 7 A
	20 0	2 9 A
denture powder*	15 8	2 2 A
tooth-paste*	18 6	2 6 A
"plus" tooth-powder*	18 6	2 6 A

UJOHN OF ENGLAND, LTD. (from October 1)
Cordex tablets* 100 17 6 R
500 72 0 R
Cordex forte tablets* 100 43 9 R
500 190 0 R

P.A.T.A. LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

ALFRED BISHOP, LTD.
Details of increased prices operative from October 7 may be obtained on application to the company.

JOHN H. BUFFHAM (from October 1)
Doz. 12 0 1 7½ A

I. & N. RABIN, LTD.
Little Chap children's blackcurrant flavoured linicuts* 12 0 1 9 A

SOUTHOON LABORATORIES, LTD.
Hexa-Mandelate* 12 oz. 67 0 10 0 R
Each 80 oz. 25 0 45 0 R
Doz. 5 3 R

U.F.I. powder* 3½ oz. 35 0 5 3 R
7½ oz. 68 0 10 3 R
Esoban ointment* 2 oz. 26 6 4 0 A
12 oz. 107 0 16 0 A

NEW PRODUCTS AND PACKS

BEECHAM PHARMACEUTICALS, LTD.
Iron Jelloids vitaminised "economy size" 69 2 7 6

COLGATE-PALMOLIVE, LTD.
Halo shampoo* sachet 7

CONTINENTAL LABORATORIES, LTD.
Taxol tablets 250 90 4
dispensing pack

COTY (ENGLAND), LTD.
"Creamy" skin perfume† 13 6

CREATORS, LTD.
electric warming pad* 31 0

IMPERIAL CHEMICAL INDUSTRIES, LTD., PHARMACEUTICALS DIVISION
Savlon lozenges* 12 16 8 2 6

LEWIS LABORATORIES, LTD.
Dimagel tablets* 50 30 6 4 6
250 140 0 21 0
500 260 0 39 0

Dimagel-belladonna tablets* 20 25 0 3 7½
100 100 0 15 0

LLOYD-HAMOL, LTD. Each
Enpac powder* 60 gm. 14 5 26 0

MERCK SHARP & DOHME, LTD.
Benemid tablets 500 225 0
0.5 gm.

Penbenemid-250 tablets 12 12 0

A. & G. NICHOLAS, LTD.
Englate tablets 50 9 0 13 6
500 64 0 96 0
syrup 8 oz. 8 4 12 6

ORGANON LABORATORIES, LTD.
Adreson eye drops 3 c.c. 3 0 4 6
Adrycin eye drops 3 c.c. 4 0 6 0

Hydro-Adreson eye ointment 3 gm. 8 0 12 0

Hydro-Adrycin eye ointment 3 gm. 9 0 13 6

Durabolin 3 x 1 c.c. 21 0

PFIZER, LTD.
Deltacortril intramuscular veterinary 10 mils 24 0

WILLS

Mr. O. J. BARLEY, M.P.S., Highfield, Oxford Road, Thame, Oxon, left £30,811 (£30,445 net).

Mr. G. H. EXELBY, M.P.S., 3 Hall Walk, Cottingham, Yorks, left £22,758 (£22,684 net).

Mr. P. R. HILL, F.P.S., Church Road, Gortleston-on-Sea, Great Yarmouth, Norfolk, left £18,318 (£18,261 net).

Mr. A. JONES, M.P.S., Bridge House, The Square, Barnstaple, Devon, left £3,589 (£3,456 net).

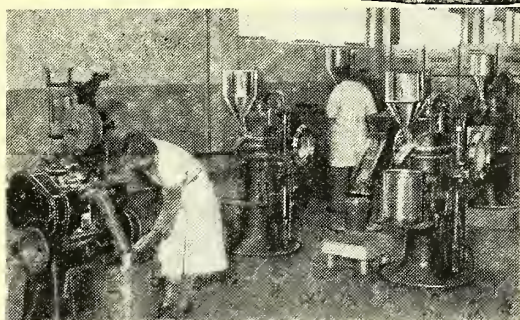
Mr. C. C. LAVERACK, F.P.S., Ormsburn, Broughton Road, Malton, Yorks, left £8,197 (£7,159 net).

Mr. L. T. SALT, F.P.S., Clovelly, The Fairway, Sandown, Isle of Wight, left £12,208 (£12,136 net).

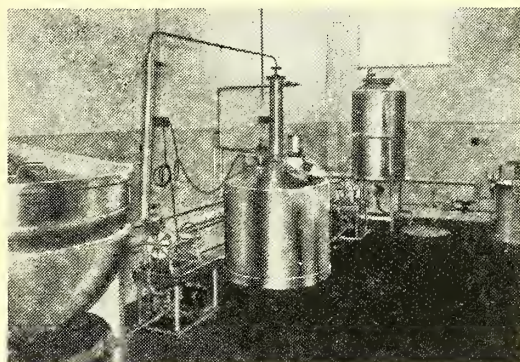
Mr. A. W. SOUTHALL, F.P.S., The Beeches, Cliffords Mesne, nr. Newent, Glos, left £150,093 (£147,303 net).

The answer to your

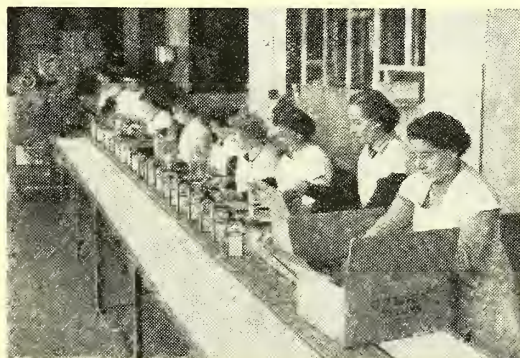
AUSTRALIAN MANUFACTURING PROBLEMS



A battery of rotary tablet compressors, capacity one million tablets per day. Left: a fully automatic twist-wrapping tablet machine



Section for sterile products, completely dust-free. Highly polished stainless steel steam jacketed pan, heat-exchangers, bacteriological filter presses, mixing and storage containers.



Production line—one of many conveyor-belt packaging lines

To organise manufacturing facilities in Australia is a big enough job in normal times. To-day, with rigid import licensing and shortages of trained personnel, many manufacturers have, through necessity, shelved any plans of developing existing or new products within the Commonwealth of Australia.

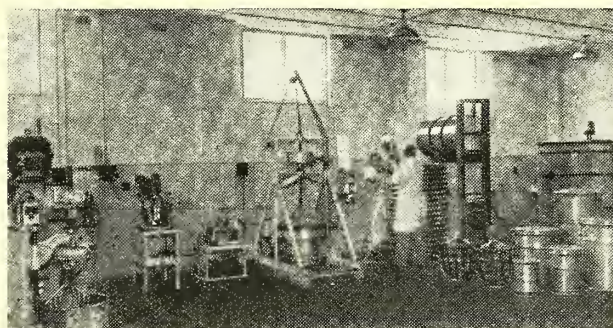
Kingsgrove Laboratories, with 40,000 sq. ft. of modern factory area, equipped with the latest of specialised equipment and experienced and qualified personnel, can relieve you of all the problems associated with the technical and physical work of manufacture.

Production covers a wide range of Pharmaceutical and Toilet preparations, together with an extensive range of packaging finishes. Qualified Pharmacists and Chemists not only supervise production, but maintain strict quality control. Our modern and efficient methods provide our clients with a cost-structure seldom equalled.

All enquiries will receive prompt attention, and formulation details will be treated in strict confidence. References as to our bona fides may be made to the following Companies, for whom we act.

A. Wander Limited.
E. Griffiths Hughes Ltd.

Optrex Ltd.
Wright, Layman & Umney Ltd.



Creams and liquids manufacturing section, employing planetary mixers, steamheated stainless steel mixing pans, colloid mill, filter presses, turbine mixer, etc.

KINGSGROVE LABORATORIES

PTY. LTD.

Forrester Street, Kingsgrove, N.S.W., Australia



For Mouth Ulcers, Sore Gums

DENTOSINE

Dentosine is an antiseptic astringent which is very effective for mouth ulcers and sore gums, and particularly beneficial after dental treatment.

There is a steady demand for this line, sales of which have increased rapidly during the last 12 months.

The pack is neat, a crowner is supplied, and bonus terms apply to all orders of 1 dozen.

PRICES:

	Retail	Trade
4 oz. bottle	2/9d. each inclusive.	18/- dozen + 5/5d. P.T.

A PRODUCT OF

*Cuxson, Gerrard
& Co. Ltd.*

OLDBURY
BIRMINGHAM

Of proved efficiency against infection

The Antipeol products incorporate the broth filtrates of the microbes common to most cutaneous, naso-pharyngeal and ocular complaints.

ANTIPEOL

CUTANEOUS OINTMENT

For the immediate treatment of Burns and Scalds. For Boils to avert surgical intervention. Also for ABSCESSSES, ECZEMA, CARBUNCLES, VARICOSE ULCERS, HAEMORRHOIDS, and certain types of DERMATITIS.

RHINO-ANTIPEOL

PROPHYLACTIC NASAL CREAM

For ASTHMA, BRONCHITIS, CATARRH, CORYZA, RHINITIS and many other infections of the naso-pharynx.

OPHTHALMO-ANTIPEOL

THERAPEUTIC OPHTHALMIC OINTMENT

For BLEPHARITIS, CONJUNCTIVITIS, DACRIOCYSTITIS, KERATITIS and other inflammatory conditions of the eye.

Among the MEDICAL AND NURSING PROFESSION and THE FIRST AID ASSOCIATIONS, the ANTIPEOL preparations enjoy a continued and growing popularity. They are highly regarded as simple but effective remedies against even the more virulent forms of skin, nose and eye infections.



MEDICO-BIOLOGICAL LABORATORIES LTD.

CARGREEN ROAD, SOUTH NORWOOD, LONDON, S.E.25.

PIPERAZINE

A "TREE OF LIFE" PRODUCT

CARNEGIES PIPERAZINE

*The modern treatment for
worm infestation in medical
and veterinary practice.*

Piperazine Hexahydrate

Piperazine Citrate

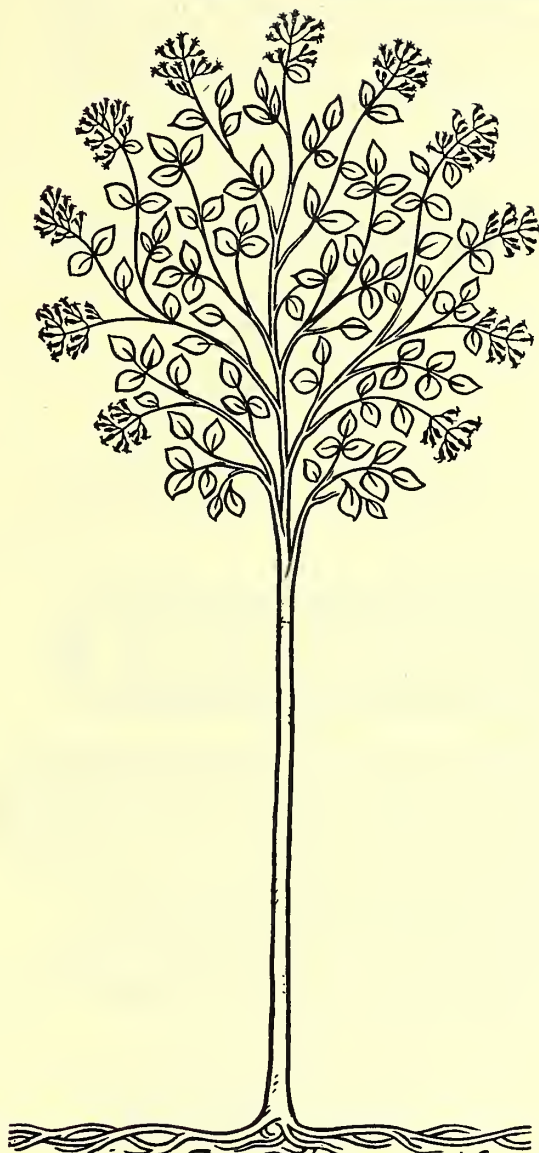
Piperazine Hydrochloride

Piperazine Phosphate

Piperazine Tartrate, etc.

*We supply many of our Piperazine
Compounds in TABLETS to conform
with customers individual requirements.*

MANUFACTURED AT OUR
WELWYN GARDEN CITY FACTORY



REGD. TRADE MARK

CARNEGIES OF WELWYN LIMITED

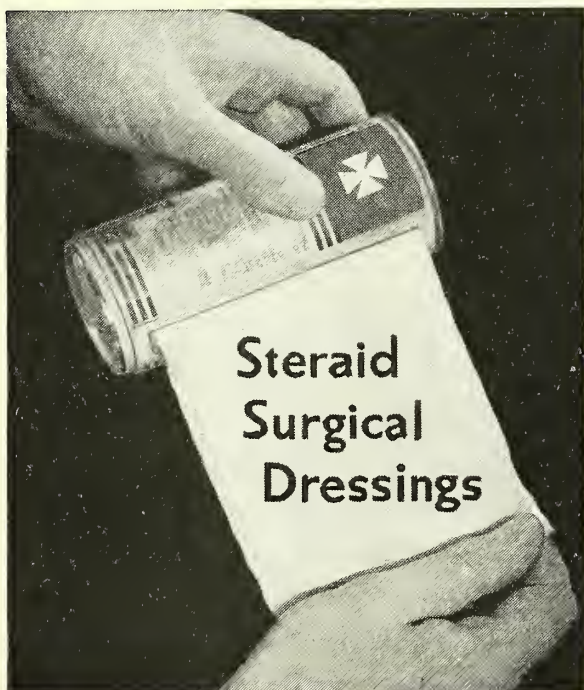
Manufacturers of Fine Chemicals **WELWYN GARDEN CITY · ENGLAND**

Telephone: WELWYN GARDEN 5001 (10 lines)

Cables: CARNEGIES, WELWYNGARDENCITY TELEX

Telex: LONDON 28676

*Look at this
dressing!*

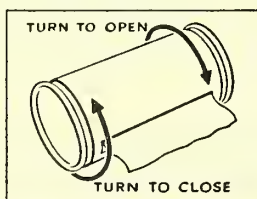


... It is **STERAID GAUZE** being drawn out of its patent container ready to be snipped off. What a convenience this could be to your Doctor and other customers: they would readily buy their Dressings in this simple and effective device ... so very much superior to the ordinary packets.

STERAID DRESSINGS are made up in Gauze and Lint (Plain and Boric) in Display outers, each of twelve containers.

Enter a trial order through your Wholesaler. Your customers will appreciate the utility of this excellent product.

After use, one slight turn at the base will return the dressing to the container, enclosing it completely from any contamination, ready for further use ...



ROBERT BAILEY & SON, LTD.
SURGICAL DRESSINGS MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCKPORT
Phone: STEPPING HILL 3006/7 Gram: "UNDISPUTED" STOCKPORT

WIN the loyal Cuticura public to *YOUR* Pharmacy

Just one pack of each of the Cuticura Preparations in your attractive window will catch the eye of every Cuticura Customer. They know that the pharmacy that sells their Cuticura, stocks only the best.

STOCK AND DISPLAY

Cuticura

SOAP

OINTMENT

HAND CREAM

SHAVING STICK

TALCUM POWDER

MEDICATED LIQUID

VITAMIN D3

PURE CRYSTALLINE D3

FINE CHEMICALS

Manufacturers:
**PEBOC
LIMITED**

Sales Office:
629/630 TOWER BUILDING
LIVERPOOL, 3, ENGLAND

Laboratories:
NORTHOLT, MIDDLESEX



SALES HAVE GONE UP TREMENDOUSLY!

Here's why...

IT'S RECOMMENDED BY DOCTORS

The doctor's advice carries weight. And Citroze—the pure glucose drink—is recommended by doctors. It gives back lost energy, bucks you up when you feel tired or low, and speeds recovery from colds, 'flu and other illnesses.

IT'S BACKED BY NATIONAL TV AND PRESS ADVERTISING

More and more people are learning about Citroze from the lively TV commercials—on twice a week. And from the frequent Radio Times advertisements.

IT'S RECOMMENDED BY ONE PERSON TO ANOTHER

Once people have discovered Citroze, they tell their friends about it. Because not only does it give up-and-at-'em energy, but Citroze tastes so nice. Pure concentrated glucose, flavoured with whole fresh lemons. Retail price, 2/6 and 3/9.

DO YOURSELF A GOOD TURN—ORDER PLENTY OF

CITROZE

(TRADE MARK)

AND DISPLAY IT PROMINENTLY:

FOR UP-AND-AT-'EM ENERGY

RECOMMENDED BY DOCTORS

Order now from your usual supplier or write! phone:—

O. R. GROVES LTD · 20 JERMYN ST. LONDON S.W.1 · GERRARD 9484 (7 LINES)





Cold weather in the Autumn sends mice indoors and this greatly increases the seasonal demand for **SCRAM**. People pestered with mice at once seek to drive them out, so be sure to stock and display **SCRAM**.

Our heavy T.V. campaign this Autumn will stimulate public demand, more than ever before. Display **SCRAM** boldly. Get your full share of the profits from **SCRAM**, the popular, nationally advertised quick seller!

SCRAM PRODUCTS LTD., DARTMOUTH PARK HILL, LONDON, N.W.5

Nationwide 1957 T.V. Campaign

*Check your stocks today and
order NOW!*

SCRAM
THE CLEAN METHOD

drives out mice!



Keep it DARK with SHADEINE

Still the best hair tint. In all natural Shades. Stocked by all wholesalers. Trade Prices: 1 oz., 24/4 per doz., 2 oz. 36/- per doz. Purchase Tax 90%. Retail Prices: 4/6½ and 6/8½ per bottle respectively.

GOLDEN SHADEINE—2 oz. size at 24/4 per doz. Purchase Tax 90%, Retailing 4/6½ per bottle.

YOUR
SALES
ARE
ASSURED
IF YOU
STOCK
SHADEINE



THE SHADEINE CO. LTD.

49 CHURCHFIELD ROAD, ACTON, LONDON W.3

DISEASES AND REMEDIES 10th Edition, 1955

Contains numerous additions made since the 9th edition (published 1953), which was completely rewritten. The book is a concise survey of the most modern methods of medicine. It provides pharmacists with a text-book of information on the treatment of diseases and the drugs used. Accepted methods are explained and the medicaments mentioned include some of very recent introduction.

PRICE 15/- Postage 8d.

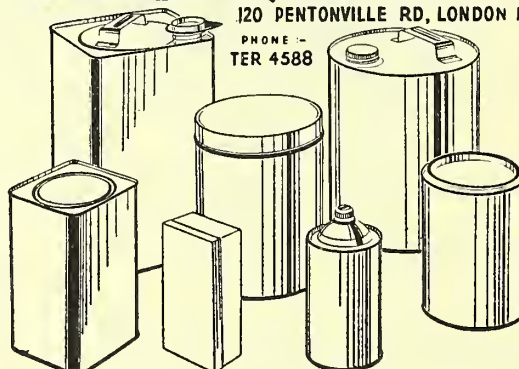
Order direct from:

THE CHEMIST AND DRUGGIST
28 ESSEX ST., STRAND, LONDON, W.C.2

HAWKER & Co.

120 PENTONVILLE RD, LONDON N.1

PHONE -
TER 4588



TRESS advertising

reaches the YOUNGER WOMAN'S market

with advertising that convinces!

Proof that a Tress Set stays in much longer!

This photograph shows the remarkable result of a simple test on a growing-out perm. After shampooing, the girl's hair was left damp. The left side was sprinkled with Tress and set in pin curls.

No Tress was put on the right side, but it was set in a similar way to the left. After drying, the pins were removed and the hair combed through and arranged.

As you can see, the left side looks almost as though she has had a new perm. The hair has gained new life, new curling strength and reality.

On the right side, the curls and waves have barely survived the comb through. The hair is straggly, "fly-away".

Here is proof that Tress is completely different—that it contains completely new types of hair nutrients, which improve the hair's curling power.

Whatever your type of hair—coarse or fine, dry or normal, over-permed or tangly—Tress will make it obedient, easier to set. Tress takes out all tangles, too, and when you comb, deep-dipping waves and eager-forming curls come

swiftly and easily. For a new too, Tress is an absolute must.

A 4 oz. bottle of Tress will last many weeks, both with regular and with freshening up a set, or shampoo. Try Tress today—will you have had such a shape or one that lasted so long? No, your hair have looked so shiny, so gloriously lovely.

TRESS sets, curls and conditions your hair

By L'OREAL, PARIS World's Greatest Makers of Hair Beauty Products

This advertisement featuring an actual test carried out with Tress is regularly appearing in:

DAILY MIRROR
SUNDAY EXPRESS
WOMAN
WOMAN'S OWN
SUNDAY PICTORIAL

and many other
big circulation media
—reaching the younger woman
with the spending power!

TRADE TERMS

Small Size
Price
8/10
per dozen bottles
plus 90% tax
selling at **1/9** per bottle

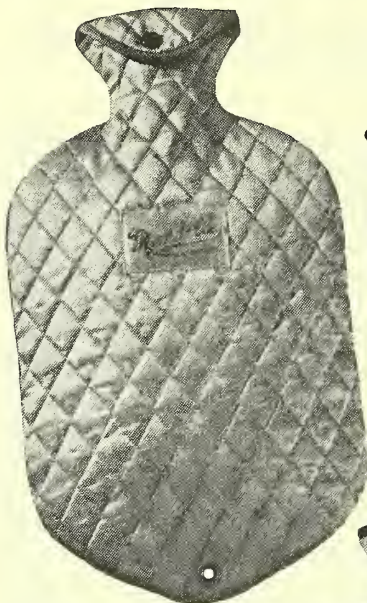
*
Large Size
Price
14/5
per dozen bottles
plus 90% tax
selling at **2/10½** per bottle

GOLDEN LIMITED · 7 Grosvenor Street · London · W.1. HYDe Park 1671

Trade Enquiries for the Republic of Ireland should be addressed to: Lilmar Pharmaceuticals Ltd., Santry, Dublin

For warmth at night

OFFER YOUR CUSTOMERS THIS WIDE RANGE OF
HIGH QUALITY COVERED HOT WATER BOTTLES



MANDELLE

'Quilted'

Covered in Quilted
Satin. Pastel Colours:
Beige, Pink, Blue,
Gold, Green or
Lavender. Each
wrapped in Cell-
ophane envelope.
36 per carton, 6
of each colour.

MANDELLE

'Velour'

Covered in Rich
Velour. Colours:
Blue, Beige, Lavender,
Coral, Green, Gold.
Each wrapped in
Cellophane envelope.
Fully guaranteed. 36
per carton, 6 of
each colour.



Please order through your wholesale house



COVERED HOT WATER BOTTLES

Manufactured by

J. MANDLEBERG & CO. (RUBBER) LTD.

SALFORD 6, LANCASHIRE

Phone: Pendleton 1441

Your own proprietary lines manufactured and packed in AUSTRALIA

Australia's high standard of living makes it a rich market for proprietary lines — chemists' lines, cosmetics, groceries, horticultural and veterinary products etc. To avoid difficult import restrictions, and freight and insurance costs, many manufacturers are now having their goods prepared and packed in Australia.

Since 1888

Simpson's Manufacturing Pty.
Ltd., of Melbourne, Victoria

and Sydney, New South Wales, has been producing articles of this kind since 1888. They now list over a thousand clients from all parts of the world. Clients' specifications are faithfully followed and utter secrecy is observed. Distribution, marketing and advertising facilities in all states are available if required.

Further details and quotations will be gladly given without obligation.

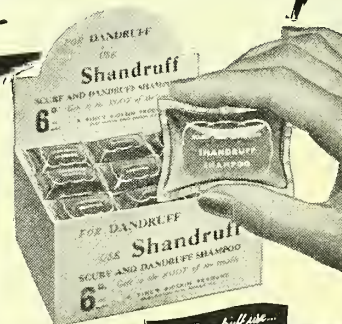
SIMPSON'S

SINCE 1888

Barkly Avenue, Burnley, Melbourne, E.1., Victoria, Australia.

MORE TILLS are tinkling every week

Is yours? Have you ordered Shandruff yet? It's time you stocked this new money spinner, because as a 6d. sachet it is now doing big figures. Reasons
(1) It's very, very good
(2) It's most attractive
(3) It's an automatic "repeater." So



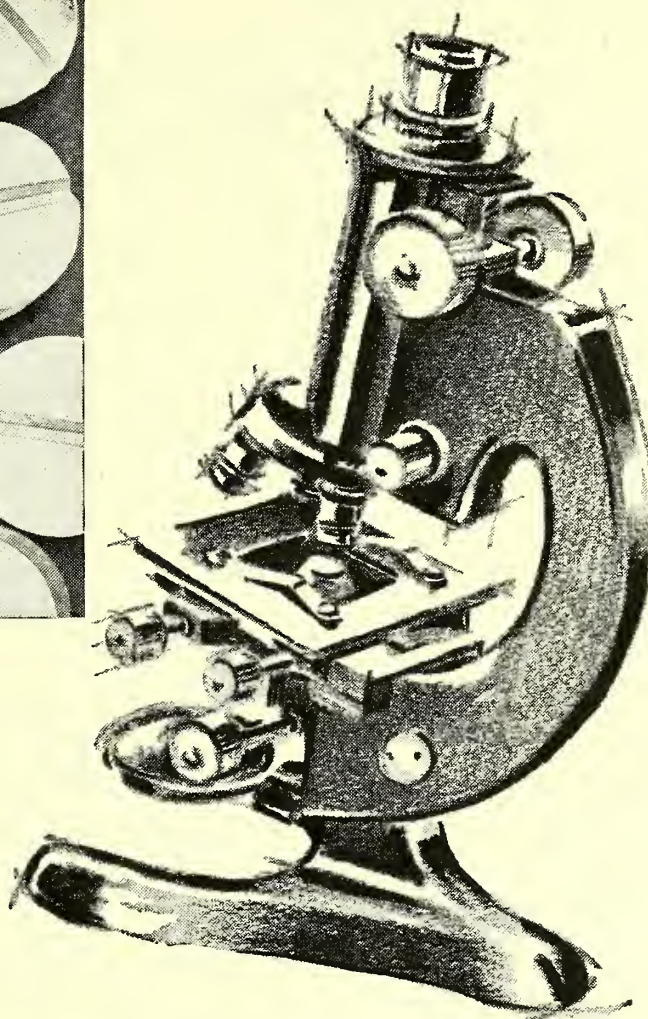
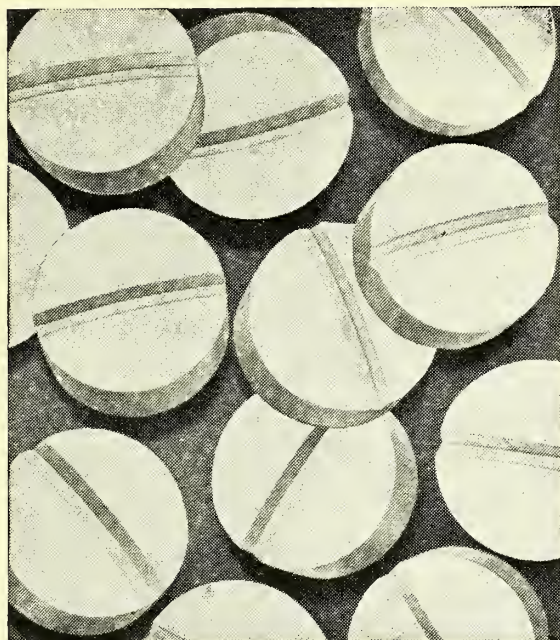
These neat little counter cards will aid your sales.

Price 42/- per gross sachets, plus P.T. AVAILABLE ON SALE OR RETURN
Overseas Enquiries to:
Gordon & Gotch, Ltd. (export division), 75/79 Farringdon St., London, E.C.4
or from your usual wholesaler and

VINES BIOCRIN LIMITED

222-224, HARROW ROAD, LONDON, W.2

Telephone: CUNningham 1172-3



**Look
at
it
this
way**

Perfect tablets are the result of years of experience and accumulated skill, coupled with modern methods and machines. Needless to say, quality and analytical control play their all important part.

We specialise in bulk tablets to customers' own formulæ on an absolutely confidential basis.

All tablets for the Pharmacist, in bulk for dispensing, or packed for counter sale.

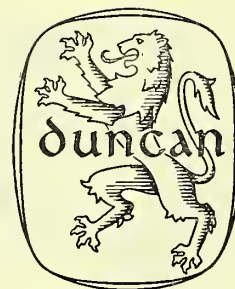
Aspirin Tablets and Compound Codeine Tablets with "own name" labels.

We make
TABLETS

THOMPSON & CAPPER LTD.
MANUFACTURING CHEMISTS,
SPEKE, LIVERPOOL.

Telephone: Hunts Cross 1321

'PECTEX'



'PECTEX,' our long established children's cough mixture, is now being publicised to family doctors all over the country. This is leading to an increased demand on prescriptions and to a demand by the public. To meet these demands we offer pharmacists dispensing packs (exempt P.T.) of 16 fl. oz. at 5s. nett and of 80 fl. oz. at 20s. nett, and a pack of 4 fl. oz. for direct sale to the public at 3s. (inc. 6d. P.T.) less the usual discount.

Your wholesaler will be glad to supply.

DUNCAN FLOCKHART of Edinburgh

APX 9/57 P.



"Eagle" Brand Chemicals

PHOTOGRAPHIC CHEMICALS
SODIUM METABISULPHITE
SODIUM HYPOSULPHITE
 (Crystals and Anhydrous)
SODIUM SULPHITE
 (Crystals and Anhydrous)
EPSOM SALTS B.P.
GLAUBER SALTS B.P.
PRECIPITATED SULPHUR B.P.
ACCUMULATOR ACID

Enquiries Invited

JOHN RILEY & SONS, LTD
HAPTON, NR BURNLEY

Grams: "Rileys" Hapton

Phone: Padiham 290/4

THE DRIVE IS ON!

for

MORGAN'S POMADE

Advertisements are running now in these top-readership papers:—

Radio Times **News of the World** **Sunday Express**
 (23,484,000) (19,388,000) (9,699,000)

From all over Britain stockists are reporting a new demand for Morgan's Pomade! Morgan's Pomade advertising is reaching new customers so get your share of this additional business.

NEW NAME—remember, "Marie Antoinette Hair Colour Restorer" is now marketed and advertised as "MORGAN'S HAIR COLOUR RESTORER"

**STOCK . DISPLAY
SELL**

**FULL RANGE
OF NEW PRICES**
 (all incl. P.T.)

GLASS JARS 4/2d and 7/5d

Specially perfumed:
 Opal jars, 3/10 and 6/11d

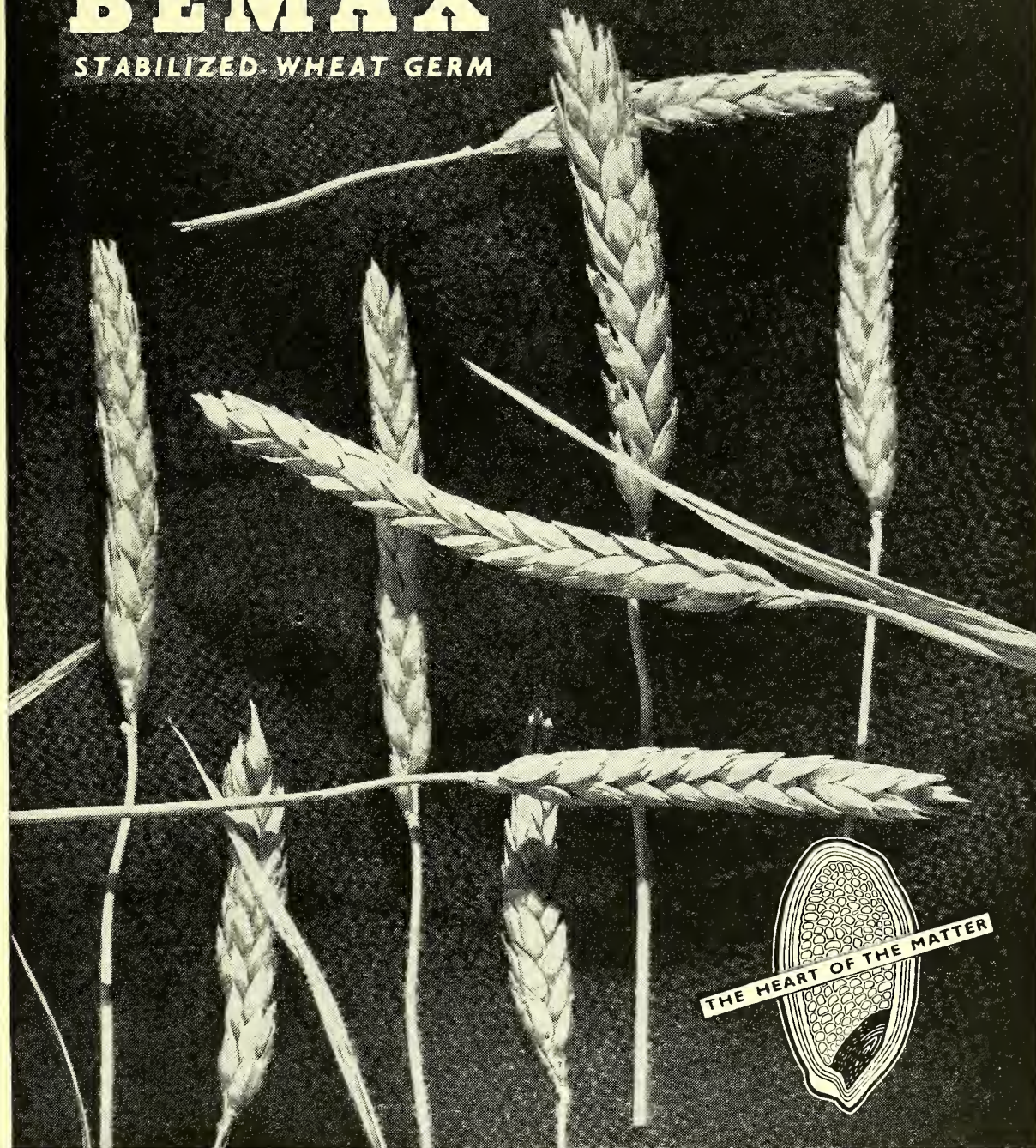
**MORGAN'S HAIR
COLOUR RESTORER
(LIQUID) Bottle 5/7d**



**MORGAN'S
POMADE CO. LTD.**
 1-7, Grenville Road,
 London, N.19.

BEMAX

STABILIZED WHEAT GERM



Of all natural vitamin-protein-mineral supplements the richest is wheat germ; and Bemax is stabilized wheat germ pure and simple. Now available in two forms — plain and chocolate-flavoured — offering easily digested nutritional support for patients of all ages.

	Dozen	Quantity terms	Quantity terms available on minimum orders of 3 doz × 3/- or the equivalent in the 1/9 and 5/6 sizes (1 × 3/- = 2 × 1/9 = 1/2 × 5/6).
1/9 carton at 16/6	16/- dozen	27/3	
3/- " " 28/6		50/-	
5/6 " " 52/6			


VITAMINS LIMITED

(DEPT A.A.4.), UPPER MALL, LONDON, W.6.

- **PREGNAVITE** during pregnancy
- Vitamin-mineral supplementation is obtained by routine administration of *Pregnavite*. It is designed with maternal dietary requirements specifically in mind.
- **VITAVEL SYRUP** for the child
- Vitamin supplementation with A, B₁, C and D so palatable as to ensure regular dosage is provided by *Vitavel Syrup*.

"Codeine tablets are codeine tablets, aren't they?"

"Well yes, broadly speaking
I suppose they are—but then, remember there are variations in quality."

"Then the choice of supplier is important?"

"Most certainly!
I've always gone for B.D.H. Compound Codeine Tablets myself."

"Any good reasons?"

"Yes, many!* You see B.D.H. has the 'know-how' which
stems from years of experience and a ceaseless search
for ways of improving the product.
It's an axiom with me—

Preferably B.D.H.

- * Clean white tablets which do not discolour.
- * No damaged edges, no capping, no surface crystallization.
- * Comply fully with official tests for disintegration and other characteristics.



Prices too are reasonable
— may we quote you for
Tab. Codeine Co. or any
other tablets?

THE BRITISH DRUG HOUSES LTD. LONDON N.1



PRIDE hair beauty PREPARATIONS SELL ON SIGHT!

Spraying ^{HAIR} Lacquer

Retails at 4/3

The finest of hair lacquers with a delightful perfume available in the new Super Spray 2½ oz. polythene bottle (various colours) in attractive individually packed cartons, and boxed in 1 doz. units in eye-catching display outers. 2 doz. refill sachets also available.



Egg and Lemon

CREAM SHAMPOO Retails at 3/9

Hair and scalp always kept at its best with this high-foaming soapless cream shampoo made from the natural benefits of shell eggs and juice of fresh lemons. Available in plastic injector dispenser—24 shampoos; attractive tubes—3 shampoos and 3 individual shampoo sachets linked together — all packed in well-designed display outers.



Scalp Milk

Retails at 3/3

An alleviating scalp lotion for use after shampooing and before setting. Allays scurf irritation; quick-drying action holds the hair, removes tangles; leaves hair free from all deposits and with a beautiful lustre.



PRIDE PRODUCTS SELL ON SIGHT!

These Fast-Selling lines are now being advertised continuously in National magazines and on Television.

From your usual wholesaler or direct—

B. N. FURMAN (PRODUCTIONS) LTD., 133 Fonthill Road, N.4

Always in Demand

RODINE

Rodine Phosphorus, Rodine Red Squill,
Rodine Warfarin (Ready-to-use or Concentrate),
and Special Rodine Mouse Warfarin.
THOMAS HARLEY LTD., RODINE WORKS, PERTH, SCOTLAND

DISEASES AND REMEDIES

10th Edition, 1955

Contains numerous additions made since the 9th edition (published 1953), which was completely rewritten. A concise survey of the most modern methods of medicine. It provides pharmacists with a text-book of information on the treatment of diseases and the drugs used.

PRICE 15/- Postage 8d.

Order direct from:

THE CHEMIST & DRUGGIST

28 ESSEX STREET, STRAND, LONDON, W.C.2

ESTABLISHED 1793

ATKINSON & BARKERS INFANTS' PRESERVATIVE

The Infants' Medicine
of 150 years' standing

For teething and digestive troubles

ROBERT BARKER & SON LTD
13 ALISTAIR STREET MANCHESTER, 1

Meet Gayelord Hauser...

...the world famous dietician
whose books on
health and beauty are
revolutionising eating habits
throughout the world.



GAYELORD HAUSER, famous American expert on intelligent eating, was the first dietician to realise that overweight might be the cause not only of physical ill-health but of unhappiness too.

LIFE AND BEAUTY LTD market a whole range of products recommended by Gayelord Hauser. These build health and vitality by fortifying the modern diet with the valuable nutritional elements it so often lacks.

TWICE-WEEKLY TELEVISION has already introduced Gayelord Hauser to London viewers—with excellent sales results—and now Birmingham audiences will meet him too. In both areas the TV campaign will be supported by regular ad-

vertisements in the local evening papers. The focus of Gayelord Hauser publicity is his Extra Potency Yeast, a safe and easy natural aid to slimming. Retail price 3/6d. per bottle of 100 tablets or 7/6d. for 250 tablets—33½% profit to you!

You—and your customers—will be hearing a lot about Gayelord Hauser this winter. His products can be ordered through all leading Wholesalers and from the sole distributors:

W. B. CARTWRIGHT LTD.

RAWDON NR. LEEDS • RAWDON 713-4-5-6

LIFE AND BEAUTY LIMITED • 5 AVERY ROW • LONDON W1

MODERN EQUIPMENT

"WEBSTER'S"
STAINLESS STEELWARE

ISAAC WEBSTER & SONS LTD.
ABBEY WORKS
KIRKSTALL
LEEDS. 5.

TELEPHONE
51580
LEEDS

TELEGRAMS
"ISAAC WEBSTER"
KIRKSTALL

The Symbol



Quality & Service

GRAESSER SALICYLATES LTD

SPECIALISTS IN THE MANUFACTURE OF

ASPIRIN SALICYLATES
and **ALLIED PRODUCTS**

Kindly Note . . .

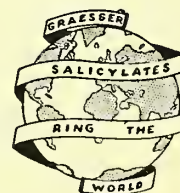
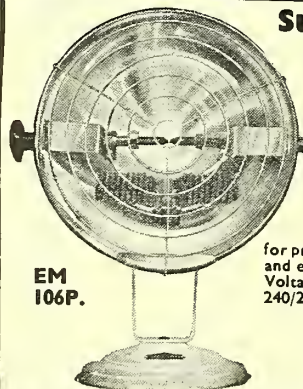
OUR RANGE NOW INCLUDES

METHYL SALICYLATE

SANDYCROFT
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Telephone:
HAWARDEN 2125

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QUALITY CHESTER

**Summer & Winter Sunshine in Your Home**

EM
106P.

Prescription model

INFRA-RED
ULTRA-VIOLET
RADIANT
HEAT

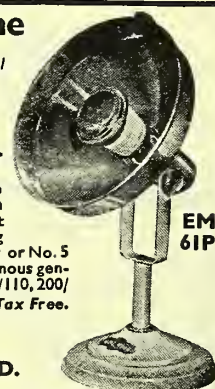
The nearest approach to NATURAL SUNLIGHT. The SOL-TAN EM106P is a carbon arc with ultra-violet, infra-red and radiant heat output recommended for professional and home use. Finished in ivory and eau-de-nil.
Voltage range: 100/110, 200/210, 220/230, 240/250v.
Price £6.6.0 Tax Free



Prescription model

INFRA-RED
&
RADIANT
HEAT

The EM61P table model with long wave infra-red generator for deep penetration or with mixed wave luminous radiant heat infra-red generator. No. 5 Long Wave Infra-Red 500 watt Dull-emitter or No. 5 mixed wave Radiant Heat 600 watt luminous generators may be used. Voltage range 100/110, 200/220, 230/250 AC or DC Price £6.2.6 Tax Free.



EM
61P.

Write or 'phone for full particulars and illustrated lists of
Infra-red Lamps, Ultra-violet Lamps and High frequency machines.

THE LONDON COMMERCIAL ELECTRICAL STORES LTD.
20/22, Cursitor Street, London, E.C.4. Tel: CHA 6488/9.

BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia from Eucalyptus leaves in accordance with the B.P. specification. W.K. Burnside Pty., Ltd., Melbourne, Australia offer:—

80/85% Rectified B.P. Eucalyptol B.P. 70/75% Rectified B.P.

Oil Eucalyptus Dives 40/45% Oil Eucalyptus Dives 90/95%

For the production of Thymol and Menthol

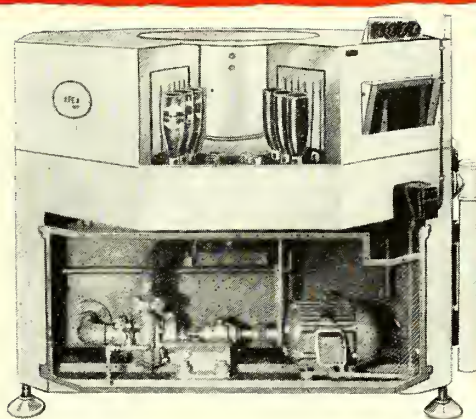
Oil Eucalyptus Phellandra—Phellandrene

For use in Antiseptics and Disinfectants

Agents for U.K.: **WILSON & MANSFIELD, LTD., 15 Philpot Lane, LONDON, E.C.3**
Phone: MANSION HOUSE 9264-5-6 (WHOLESALE ONLY) Grams: WYFIELD, LONDON



... cleaning 2,000 bottles an hour, in less than 30 sq. ft. of floor space.
The APEX can cope with bottles in any condition and shape or size.
Overall dimension 5'6" long x 5'6" wide x 4'9" high.



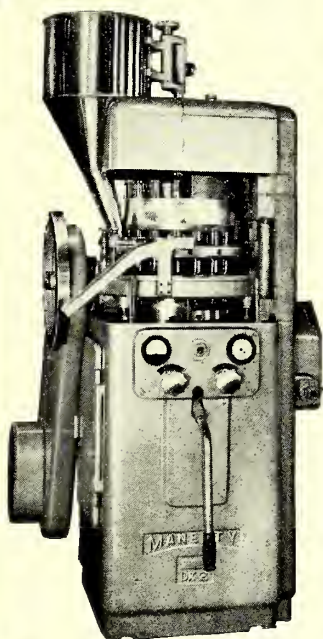
* After Sales Service and Spares readily available.

ROTARY HYDRO BOTTLE WASHING MACHINE

R. POWLEY & SONS LIMITED, ST. MARK'S ROAD, SUNDERLAND, ENGLAND

Telephone 4846 7

Telegrams and Cables Powley Sunderland



MANESTY

DX2 ROTARY TABLET MACHINE

a NEW MODEL

FOR "SLUGGING" or PREFORMING

This machine is an addition to the Manesty range of rotary tablet machines and is particularly useful for "slugging" or preforming on account of its rugged construction, increased depth of fill and suitability for tablet diameters up to 1½ in.

Two types are available—one with 13 die stations up to 1½ in. diameter, the other with 16 die stations up to 1 in. diameter.

Other features are: Hydraulic overload device;

Direct reading pressure gauge; Variable speed drive; Hopper with cut-off slide; new type cams; Built in dust Extraction Nozzle; Completely enclosed.

SPECIFICATION

OUTPUT (13 station model)	.. ..	143/286 per min.
OUTPUT (16 station model)	.. ..	176/352 per min.
Maximum diameter (13 station model)	.. ..	1½ in.
Maximum diameter (16 station model)	.. ..	1 in.
Maximum depth of fill (both types)	.. ..	1½ in.
Maximum working pressures (total)	.. ..	10 tons
Horse power of motor	.. ..	3 h.p.

Full details on request.

MANESTY MACHINES LTD., 5, Evans Road, Speke, Liverpool, 19

Telephone: HUNTS CROSS 1972. Telegrams: MANESTY, LIVERPOOL, 19

TABLET MACHINES • PUNCHES AND DIES • MIXERS • GRANULATORS • COMMUNUTORS • CONE MILLS

Net profits!



Lastonet Elastic Net Bandages, with their two-way stretch, give firm, even support to sprained or weak joints. Their open net lets air circulate freely. They're hygienic and washable. Hence their popularity and great sales potential. They're available in 5-yard lengths (fully stretched) and 2½, 3, 3½ or 4 inch widths, attractively packed in half-dozens or dozens. They can be supplied against NHS prescriptions. There's a good profit margin and display material is available. Over to you!

Lastonet
ELASTIC
NET BANDAGES

LASTONET PRODUCTS LIMITED
CARN BREA, REDRUTH, CORNWALL

PT3

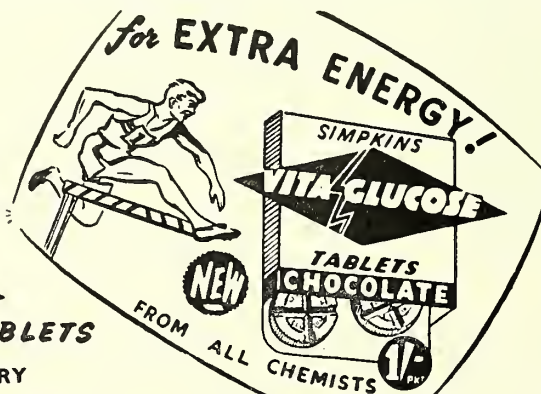
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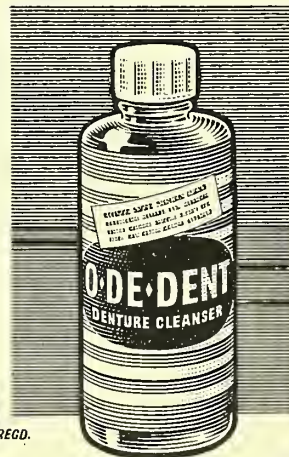
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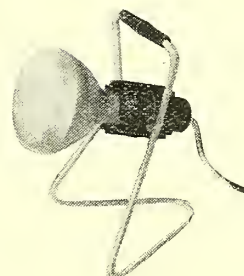
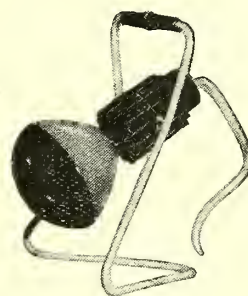
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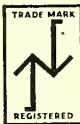
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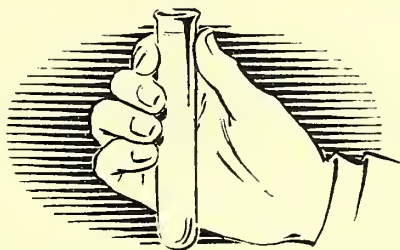
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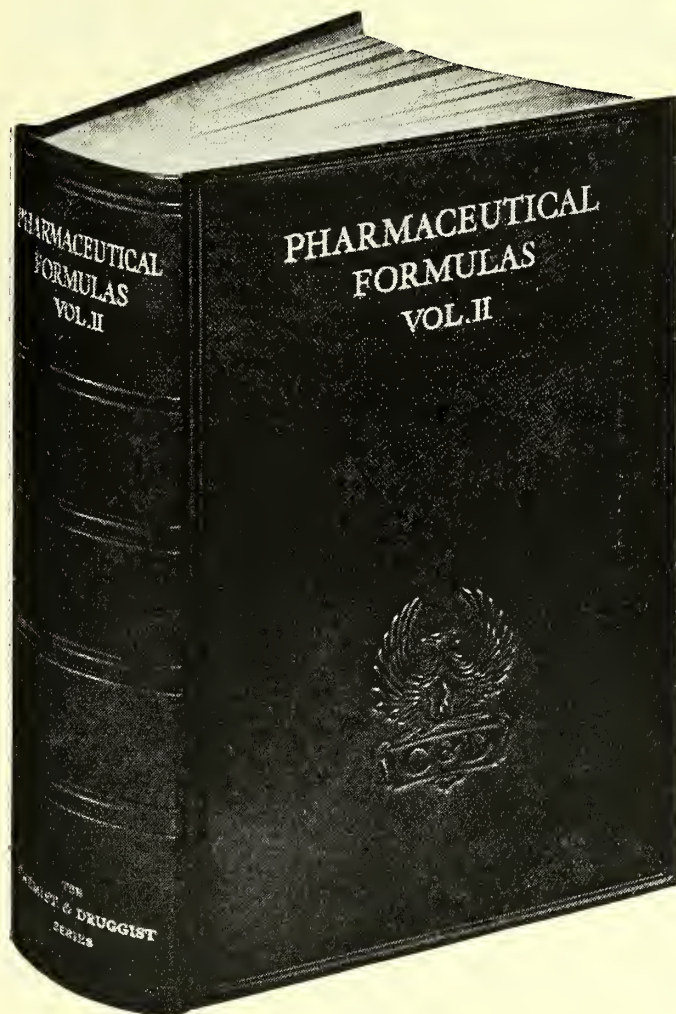
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MAY & BAKER, LTD., Dagenham, Essex, are looking for a Senior Copywriter to take charge of their Copywriting Department and supervise the work of a team of copywriters covering ethical medical products and other pharmaceutical and chemical manufactures. Applicants should have several years' experience of medical copywriting. This is a senior appointment and salary will be commensurate with the responsibilities. Contributory pension scheme. Apply initially in writing to the Personnel Officer, quoting Reference No. 113. C 7158

MEDICAL REPRESENTATIVES, either sex, required for London area. Experienced in calling on general practitioners. Whilst preference will be given to pharmacist, applicants should give adequate details of experience, education and/or academic attainment, to warrant consideration. Excellent position with good prospects offered to successful applicants. Apply in writing to the Managing Director, Biorex (marketing), Ltd., 47/51 Exmouth Market, E.C.1. C 7164

OLD-ESTABLISHED cork manufacturers require representatives, already calling upon chemists, in the North-west and South-west of England and the Midlands. Commission basis only. Box C 4963.

PACKAGING SUPERVISOR (male or female) required by manufacturing chemists, in department handling tablets, etc., in small and bulk packs. Must have had previous experience and be used to controlling staff. Apply Box C 7175.

PROCESS WORKER REQUIRED: Experienced in manufacturing of ointments, emulsions, etc. Excellent prospects for experienced applicant. Apply with full particulars of experience and salary required to: Biorex Laboratories, Ltd., 47/51 Exmouth Market, E.C.1. Telephone: Terminus 9494. C 7163

**PRODUCTION
PHARMACIST**

ONE of the leading British Pharmaceutical Houses situated in the Greater London area, invites applications from Pharmacists to control the manufacture and packaging of ethical products. The posts offer considerable scope for initiative and development, with opportunities for experience in production and control methods. Contributory pension scheme. Five-day week. Apply initially in writing to Box C 7153.

REPRESENTATIVES, already calling on chemists, etc., to carry new synthetic toilet sponge of exceptional quality on commission basis. Representatives required all areas. Box C 4988.

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ASSISTANT PRODUCTION CHEMISTS required to supervise production of Organic Chemicals and Pharmaceuticals. Qualifications H.N.C. or O.N.C. in Chemistry or equivalent and experience in Processing of Chemicals required. This is a new plant with excellent working conditions and offering good prospects to successful candidates. Pension and Life Assurance scheme from age 30 onwards, usual welfare facilities, subsidised canteen, etc. Applications should be made to:

The Personnel Dept. (Staff),
Edgefield Avenue,
Newcastle upon Tyne, 3.

C 7165

WHOLESALE (OVERSEAS)

A LEADING pharmaceutical house invite applications from pharmacists for a vacancy in the sales force of their branch organisation in Salisbury, Rhodesia. This will appeal to young men aged 25-32, preferably single, anxious to go abroad. Comprehensive training will be given in the United Kingdom. The position offers scope for advancement within a growing organisation and the salary will be fully commensurate with qualifications, experience and the responsibilities involved. Apply initially in writing to Box C 7173.

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Opportunities are offered to outstanding young men with drive and initiative wishing to start as medical representatives.

Vacancies occur in:

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Midlands
Devon and Cornwall

Good salary, exceptional pension scheme, full expenses; successful applicants are assisted to own their own cars. First-class candidates desiring success and security should apply with full details to the Secretary, Roche Products Ltd., 15 Manchester Square, London, W.1. Applications will be treated as confidential.

C 7161

Situations Vacant—Continued

A LEADING BRITISH COMPANY offers careers with real prospects in West Africa to pharmacists with British qualifications. The company are mainly wholesalers supplying hospitals, doctors and retail outlets. Applicants should have had management experience which includes stock control, stock-taking, customer accounts and a reasonable knowledge of surgical instruments. Starting salary £1,200 per annum with free furnished accommodation and free medical attention. Contributory pension fund. Low income tax. Tours of about 21 months each followed by approximately four months' leave on full pay. Married staff receive generous family allowances. Free first-class passages paid for wife and children under age eight. Apply giving full particulars to Box C 7171.

A LEADING pharmaceutical house invites applications from suitably qualified persons to fill an important vacancy in the sales force of their branch office in Nairobi. The position will appeal to young single men with sound retail or hospital background. Representative experience in the ethical field will carry some measure of preference. Duties will consist of the promotion of the Company's products to the medical profession, hospitals and trade, and will entail short tours within the territories. Full training will be given. Contributory pension scheme. Apply initially in writing giving full details of experience to Box C 7159.

WEST AFRICA

Applications are invited from Pharmacists for a senior appointment on the staff of the newly formed Pfizer West African Company. Applicants should preferably be between the ages of 28 and 36 and have had commercial experience. Tours are of ten months' duration only followed by home leave.

Applications should be made to the Personnel Officer of Pfizer, Ltd., 137/139 Sandgate Road, Folkestone.

C 7117

THE ARMOUR LABORATORIES

We continue to expand our Medical Representation and have Vacancies necessitating residence in:

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Applicants under 35 years with a good Pharmaceutical background will be considered for these appointments in which **ENERGY, PERSEVERANCE and IMAGINATION** will ensure a progressive and worth-while selling career, excellently remunerated by salary and expenses, and with a Company Car provided.

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AGENTS WANTED

M.A.A.—The Badge of a good manufacturers' agent. Manufacturers requiring reputable agents are invited to communicate with the Secretary, The Manufacturers' Agents' Association of Great Britain & Ireland (Inc.), Bream's Buildings, E.C.4. Membership available to established agents only. Particulars supplied. C 4

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QUALIFIED LADY (L.P.S.I.), seeks position as dispenser or assistant. Northern England preferred. Good all-round experience; excellent references. Box C 4984.

AGENCIES WANTED

ACTIVE REPRESENTATIVE in Holland requires additional agencies in chemists' or hardware lines. Excellent references available through English manufacturers. Please write to: Louis Blok Azn., Amersfoortsestraatweg 58, Naarden, Holland. C 7150

BUSINESS OPPORTUNITIES

AFRICAN NATIVE MARKETS

MARKETING SPECIALIST is visiting every territory of British Africa, plus Liberia, Belgian Congo, Angola, Mozambique, to study local conditions on behalf of pharmaceutical laboratory selling to natives.

The Specialist has wide experience to offer of Marketing and Advertising including Africa and could undertake one additional assignment.

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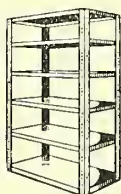
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MANAGEMENT COMMITTEE**

Tenders are invited for the supply of drugs for Hellingly Hospital for the twelve months commencing November 1, 1957. Forms of Tender, which must be returned by October 28, 1957, may be obtained from the Secretary, Hailsham Hospital Management Committee, Hellingly Hospital, Hailsham, Sussex. C 7169

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SUPPOSITORY EXCIPIENTS "IMHAUSEN" in five different grades to suit individual needs—available from Chemicals Trading Company, Ltd., 102 Bishopsgate, London, E.C.2. C 300

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